

10/568142

SEQUENCE LISTING

IAP20 Rec'd PCT/PTO 10 FEB 2006

<110> EXELIXIS, INC.

<120> SULFS AS MODIFIERS OF THE BETA CATENIN PATHWAY AND METHODS OF USE

<130> EX04-057C-PC

<150> US 60/495,172

<151> 2003-08-14

<160> 11

<170> PatentIn version 3.2

<210> 1

<211> 5699

<212> DNA

<213> Homo sapiens

<400> 1

ggagttctca gacctcaggt ttcagccctg ccctcagcct ccaatccgta agagacaccc	60
agccccagca attggattgg gcagcccgtc ttgacacacc actgtgctga gtgcttgagg	120
acgtgtttca acagatgggt ggggttagtg tgtgtcatca cattcgagtg gggattaaga	180
gaaggaaggc tgccttgctg gagctgtgtg gtcttctcca agtgagagtc gcaggcaata	240
gaactacttt gcttttggag gaaaaggagg aattcatttt cagcagacac aagaaaagca	300
gttttttttt cagggattct tcaacttctt tgaacaagga actcactcag agactaacac	360
aaaggaagta atttcttacc tggtcattat ttagtctaca ataagttcat ccttcttcag	420
tgtgaccagt aaattcttcc catactcttg aagagagcat aattggaatg gagagggtgt	480
gctgacggcc acccaccatc atctaaagaa gataaacttg gcaaatgaca tgcagggttct	540
tcaaggcaga ataattgcag aaaatcttca aaggacccta tctgcagatg ttctgaatac	600
ctctgagaat agagattgat tattcaacca ggatacctaa ttcaagaact ccagaaatca	660
ggagacggag acattttgtc agttttgcaa cattggacca aatacaatga agtattcttg	720
ctgtgctctg gttttggctg tcctgggcac agaattgctg ggaagcctct gttcgactgt	780
cagatccccg aggttcagag gacggatata gcaggaacga aaaaacatcc gaccaacat	840
tattcttgctg cctaccgatg atcaagatgt ggagctgggg tccctgcaag tcatgaacaa	900
aacgagaaag attatggaac atgggggggc caccttcacg aatgcctttg tgactacacc	960
catgtgctgc ccgtcacggt cctccatgct caccgggaag tatgtgcaca atcacaatgt	1020
ctacaccaac aacgagaact gctcttcccc ctctgtggcag gccatgcatg agcctcggac	1080

ttttgctgta	tatcttaaca	acactggcta	cagaacagcc	ttttttggaa	aatacctcaa	1140
tgaatataat	ggcagctaca	tccccctgg	gtggcgagaa	tggcttggat	taatcaagaa	1200
ttctcgcttc	tataattaca	ctgtttgtcg	caatggcatc	aaagaaaagc	atggatttga	1260
ttatgcaaag	gactacttca	cagacttaat	cactaacgag	agcattaatt	acttcaaaat	1320
gtctaagaga	atgtatcccc	ataggcccgt	tatgatgggtg	atcagccacg	ctgcgccccca	1380
cggccccgag	gactcagccc	cacagttttc	taaactgtac	cccaatgctt	cccaacacat	1440
aactcctagt	tataactatg	caccaaatat	ggataaacac	tggattatgc	agtacacagg	1500
accaatgctg	cccatccaca	tggaatttac	aaacattcta	cagcgcaaaa	ggctccagac	1560
tttgatgtca	gtggatgatt	ctgtggagag	gctgtataac	atgctcgtgg	agacggggga	1620
gctggagaat	acttacatca	tttacaccgc	cgaccatggg	taccatattg	ggcagtttgg	1680
actgggtcaag	gggaaatcca	tgccatatga	ctttgatatt	cgtgtgcctt	tttttattcg	1740
tggccaagt	gtagaaccag	gatcaatagt	cccacagatc	gttctcaaca	ttgacttggc	1800
ccccacgatc	ctggatattg	ctgggctcga	cacacctcct	gatgtggacg	gcaagtctgt	1860
cctcaaactt	ctggacccag	aaaagccagg	taacaggttt	cgaacaaaca	agaaggccaa	1920
aatttggcgt	gatacattcc	tagtggaag	aggcaaattt	ctacgtaaga	aggaagaatc	1980
cagcaagaat	atccaacagt	caaactactt	gccccaaatat	gaacgggtca	aagaactatg	2040
ccagcaggcc	aggtaccaga	cagcctgtga	acaaccgggg	cagaagtggc	aatgcattga	2100
ggatacatct	ggcaagcttc	gaattcacaa	gtgtaaagga	cccagtgacc	tgctcacagt	2160
ccggcagagc	acgcggaacc	tctacgctcg	cggcttccat	gacaaagaca	aagagtgcag	2220
ttgtagggag	tctggttacc	gtgccagcag	aagccaaaga	aagagtcaac	ggcaattctt	2280
gagaaaccag	gggactccaa	agtacaagcc	cagattttgtc	catactcggc	agacacgttc	2340
cttgtccgtc	gaatttgaag	gtgaaatata	tgacataaat	ctggaagaag	aagaagaatt	2400
gcaagtgttg	caaccaagaa	acattgctaa	gcgtcatgat	gaaggccaca	aggggccaag	2460
agatctccag	gcttccagtg	gtggcaacag	gggcaggatg	ctggcagata	gcagcaacgc	2520
cgtgggcccc	cctaccactg	tccgagtgc	acacaagtgt	tttattcttc	ccaatgactc	2580
tatccattgt	gagagagaac	tgtaccaatc	ggccagagcg	tggaaggacc	ataaggcata	2640
cattgacaaa	gagattgaag	ctctgcaaga	taaaattaag	aatttaagag	aagtgaagag	2700
acatctgaag	agaagggaagc	ctgaggaatg	tagctgcagt	aaacaaagct	attacaataa	2760

agagaaaggt gtaaaaaagc aagagaaatt aaagagccat cttcacccat tcaaggaggc	2820
tgctcaggaa gtagatagca aactgcaact tttcaaggag aacaaccgta ggaggaagaa	2880
ggagaggaag gagaagagac ggcagaggaa gggggaagag tgcagcctgc ctggcctcac	2940
ttgcttcacg catgacaaca accactggca gacagccccg ttctggaacc tgggatcttt	3000
ctgtgcttgc acgagttcta acaataacac ctactggtgt ttgcgtacag ttaatgagac	3060
gcataatfff cttttctgtg agtttgctac tggctttttg gagtattttg atatgaatac	3120
agatccttat cagctcacia atacagtgc cacggtagaa cgaggcattt tgaatcagct	3180
acacgtacia ctaatggagc tcagaagctg tcaaggatat aagcagtgc acccaagacc	3240
taagaatctt gatgttgga ataaagatgg aggaagctat gacctacaca gaggacagtt	3300
atgggatgga tgggaagggt aatcagcccc gtctcactgc agacatcaac tggcaaggcc	3360
tagaggagct acacagtgtg aatgaaaaca tctatgagta cagacaaaac tacagactta	3420
gtctggtgga ctggactaat tacttgaagg atttagatag agtatttgca ctgctgaaga	3480
gtcactatga gcaaaataaa acaataaga ctcaaactgc tcaaagtgc gggttcttgg	3540
ttgtctctgc tgagcacgct gtgtcaatgg agatggcctc tgctgactca gatgaagacc	3600
caaggcataa ggttgggaaa acacctcatt tgaccttgcc agctgacctt caaacctgc	3660
atttgaaccg accaacatta agtccagaga gtaaacttga atggaataac gacattccag	3720
aagttaatca tttgaattct gaacactgga gaaaaaccga aaaatggacg gggcatgaag	3780
agactaatca tctggaaacc gatttcagtg gcgatggcat gacagagcta gagctcgggc	3840
ccagccccag gctgcagccc attcgcaggc acccgaaaga acttccccag tatggtggtc	3900
ctggaaagga catTTTTgaa gatcaactat atcttcctgt gcattccgat ggaatttcag	3960
ttcatcagat gtccaccatg gccaccgcag aacaccgaag taattccagc atagcgggga	4020
agatgttgac caagggtggag aagaatcacg aaaaggagaa gtcacagcac ctagaaggca	4080
gcgcctcctc ttactctcc tctgattaga tgaaactggt accttacctt aaacacagta	4140
tttcttttta acttttttat ttgtaaacta ataaaggtaa tcacagccac caacattcca	4200
agctacctg ggtacctttg tgcagtagaa gctagtgagc atgtgagcaa gcggtgtgca	4260
cacggagact catcgttata atttactatc tgccaagagt agaaagaaag gctggggata	4320
tttgggttgg cttgggtttg attttttgct tgtttgtttg ttttgtacta aaacagtatt	4380
atcttttgaa tatcgtaggg acataagtat atacatgtta tccaatcaag atggctagaa	4440
tggtgccttt ctgagtgtct aaaacttgac acccctggta aatctttcaa cacacttcca	4500

ctgcctgcgt aatgaagttt tgattcattt ttaaccactg gaattttttca atgccgtcat	4560
tttcagttag atgatttttgc actttgagat taaaatgcca tgtctatttg attagtctta	4620
tttttttatt ttacaggct tatcagtctc actgttggct gtcattgtga caaagtcaaa	4680
taaaccccca aggacgacac acagtatgga tcacatattg tttgacatta agcttttgcc	4740
agaaaatgtt gcatgtgttt tacctcgact tgctaaaatc gattagcaga aaggcatggc	4800
taataatgtt ggtggtgaaa ataaataaat aagtaaacaa aatgaagatt gcctgctctc	4860
tctgtgccta gcctcaaagc gttcatcata catcatacct ttaagattgc tatatttttg	4920
gttatttttct tgacaggaga aaaagatcta aagatctttt attttcatct tttttggttt	4980
tcttggcatg actaagaagc ttaaagtgtg ataaaaatg actagttttg aatttacacc	5040
aagaacttct caataaaaaga aaatcatgaa tgctccacaa tttcaacata ccacaagaga	5100
agttaatttc ttaacattgt gttctatgat tatttgtaag accttcacca agttctgata	5160
tcttttaaag acatagtcca aaattgcttt tgaaaatctg tattcttgaa aatatccttg	5220
ttgtgtatta ggtttttaaa taccagctaa aggattacct cactgagtca tcagtaccct	5280
cctattcagc tccccaagat gatgtgtttt tgcttaccct aagagagggt ttcttcttat	5340
ttttagataa ttcaagtgtc tagataaatt atgttttctt taagtgttta tggtaaactc	5400
ttttaaagaa aatttaatat gttatagctg aatctttttg gtaactttaa atctttatca	5460
tagactctgt acatatgttc aaattagctg cttgcctgat gtgtgtatca tcggtgggat	5520
gacagaacaa acatatttat gatcatgaat aatgtgcttt gtaaaaagat ttcaagttat	5580
taggaagcat actctgtttt ttaatcatgt ataataattcc atgatacttt tatagaacaa	5640
ttctggcttc aggaaagtct agaagcaata tttcttcaaa taaaagggtg ttaaacttt	5699

<210> 2
 <211> 1013
 <212> DNA
 <213> Homo sapiens

<400> 2	
ctcagaagct gtcaaggata taagcagtgc aaccaagac ctaagaatct tgatgttgga	60
aataaagatg gaggaagcta tgacctacac agaggacagt tatgggatgg atgggaaggt	120
taatcagccc cgtctcactg cagacatcaa ctggcaaggc ctagaggagc tacacagtgt	180
gaatgaaaac atctatgagt acagacaaaa ctacagactt agtctggtgg actggactaa	240

ttacttgaag gatttagata gagtatttgc actgctgaag agtcactatg agcaaaataa	300
aacaaataag actcaaactg ctcaaagtga cgggttcttg gttgtctctg ctgagcacgc	360
tgtgtcaatg gagatggcct ctgctgactc agatgaagac ccaaggcata aggttgggaa	420
aacacctcat ttgaccttgc cagctgacct tcaaaccctg catttgaacc gaccaacatt	480
aagtccagag agtaaacttg aatggaataa cgacattcca gaagttaatc atttgaattc	540
tgaacactgg agaaaaaccg aaaaatggac ggggcatgaa gagactaatc atctggaaac	600
cgatttcagt ggcgatggca tgacagagct agagctcggg cccagcccca ggctgcagcc	660
cattcgcagg cacccgaaag aacttcccca gtatggtggt cctggaaagg acatttttga	720
agatcaacta tatcttctg tgcatctcca tggaatttca gttcatcaga tgttcaccat	780
ggccaccgca gaacaccgaa gtaattccag catagcgggg aagatgttga ccaaggtgga	840
gaagaatcac gaaaaggaga agtcacagca cctagaaggc agcgctcctc cttcactctc	900
ctctgattag atgaaactgt taccttacc taaacacagt atttcttttt aactttttta	960
tttgtaaact aataaaggta atcacagcca ccaacaaaaa aaaaaaaaaa aaa	1013

<210> 3
 <211> 4279
 <212> DNA
 <213> Homo sapiens

<400> 3	
gggccatttc tggacaacag ctgctatttt cacttgagcc caagttaatt tctcggggag	60
ttctcgggcg cgcacaggca gctcggtttg ccctgcgatt gagctgcggg tcgcggcccg	120
cgccggcctc tccaatggca aatgtgtgtg gctggaggcg agcgcgaggc tttcggcaaa	180
ggcagtcgag tgtttgcaga ccggggcgag tcctgtgaaa gcagataaaa gaaaacattt	240
attaacgtgt cattacgagg ggagcgcccc gccggggctg tcgcactccc cgcggaacat	300
ttggctccct ccagctccta gagaggagaa gaagaaagcg gaaaagaggc agattcacgt	360
cgtttccagc caagtggacc tgatcgatgg ccctcctgaa tttatcacga tatttgattt	420
attagcgatg ccccttggtt tgtgtgttac gcacacacac gtgcacacaa ggctctggct	480
cgcttccctc cctcgtttcc agctcctggg cgaatcccac atctgtttca actctccgcc	540
gagggcgagc aggagcgaga gtgtgtcgaa tctgcgagtg aagagggacg agggaaaaga	600
aacaaagcca cagacgcaac ttgagactcc cgcacccaa aagaagcacc agatcagcaa	660
aaaaagaaga tgggcccccc gagcctcgtg ctgtgcttgc tgtccgcaac tgtgttctcc	720

ctgctgggtg gaagctcggc cttcctgtcg caccaccgcc tgaaaggcag gtttcagagg	780
gaccgcagga acatccgccc caacatcatc ctggtgctga cggacgacca ggatgtggag	840
ctgggttcca tgcaggtgat gaacaagacc cggcgcacatca tggagcaggg cggggcgcac	900
ttcatcaacg ccttcgtgac cacacccatg tgctgcccct cacgctcctc catcctcacc	960
ggcaagtacg tccacaacca caacacctac accaacaatg agaactgctc ctcgccctcc	1020
tggcaggcac agcacgagag ccgcaccttt gccgtgtacc tcaatagcac tggctaccgg	1080
acagctttct tcgggaagta tcttaatgaa tacaacggct cctacgtgcc acccggctgg	1140
aaggagtggg tcggactcct taaaaactcc cgcttttata actacacgct gtgtcggaac	1200
ggggtgaaaag agaagcacgg ctccgactac tccaaggatt acctcacaga cctcatcacc	1260
aatgacagcg tgagcttctt ccgcacgtcc aagaagatgt acccgcacag gccagtcctc	1320
atggtcatca gccatgcagc cccccacggc cctgaggatt cagccccaca atattcacgc	1380
ctcttcccaa acgcatctca gcacatcacg ccgagctaca actacgcgcc caaccggac	1440
aaacactgga tcatgcgcta cacggggccc atgaagccca tccacatgga attcaccaac	1500
atgctccagc ggaagcgctt gcagaccctc atgtcgggtg acgactccat ggagacgatt	1560
tacaacatgc tggttgagac gggcgagctg gacaacacgt acatcgata caccgccgac	1620
cacggttacc acatcgcca gtttggcctg gtgaaaggga aatccatgcc atatgagttt	1680
gacatcaggg tcccgttcta cgtgaggggc cccaacgtgg aagccggctg tctgaatccc	1740
cacatcgtec tcaacattga cctggcccc accatcctgg acattgcagg cctggacata	1800
cctgcggata tggacgggaa atccatcctc aagctgctgg acacggagcg gccggtgaat	1860
cggtttcact tgaaaaagaa gatgaggggtc tggcgggact ctttcttggg ggagagaggc	1920
aagctgctac acaagagaga caatgacaag gtggacgccc aggaggagaa ctttctgccc	1980
aagtaccagc gtgtgaagga cctgtgtcag cgtgctgagt accagacggc gtgtgagcag	2040
ctgggacaga agtggcagtg tgtggaggac gccacgggga agctgaagct gcataagtgc	2100
aagggcccca tgcggctggg cggcagcaga gccctctcca acctcgtgcc caagtactac	2160
gggcagggca gcgaggcctg cacctgtgac agcggggact acaagctcag cctggccgga	2220
cgccggaaaa aactcttcaa gaagaagtac aaggccagct atgtccgcag tcgctccatc	2280
cgctcagtg ccacgcaggt ggacggcagg gtgtaccacg taggcctggg tgatgccgcc	2340
cagccccgaa acctcaccaa gcggcactgg ccaggggccc ctgaggacca agatgacaag	2400
gatggtgggg acttcagtgg cactggaggc cttcccgact actcagccgc caacccatt	2460

aaagtgacac atcggtgcta catcctagag aacgacacag tccagtgtga cctggacctg	2520
tacaagtccc tgcaggcctg gaaagaccac aagctgcaca tgcaccacga gattgaaacc	2580
ctgcagaaca aaattaagaa cctgagggaa gtccgaggtc acctgaagaa aaagcggcca	2640
gaagaatgtg actgtcacaa aatcagctac cacaccacgc acaaaggccg cctcaagcac	2700
agaggctcca gtctgcatcc tttcaggaag ggcttgcaag agaaggacaa ggtgtggctg	2760
ttgcgggagc agaagcgcaa gaagaaactc cgcaagctgc tcaagcgcct gcagaacaac	2820
gacacgtgca gcatgccagg cctcacgtgc ttcaccacgc acaaccagca ctggcagacg	2880
gcgcctttct ggacactggg gcctttctgt gcctgcacca gcgccaacaa taacacgtac	2940
tggtgcatga ggaccatcaa tgagactcac aatttcctct tctgtgaatt tgcaactggc	3000
ttcctagagt actttgatct caacacagac ccctaccagc tgatgaatgc agtgaacaca	3060
ctggacaggg atgtcctcaa ccagctacac gtacagctca tggagctgag gagctgcaag	3120
ggttacaagc agtgtaaccc ccggactcga aacatggacc tgggacttaa agatggagga	3180
agctatgagc aatacaggca gtttcagcgt cgaaagtggc cagaaatgaa gagaccttct	3240
tccaaatcac tgggacaact gtgggaaggc tgggaagggt aagaaacaac agaggtggac	3300
ctccaaaaac atagaggcat cacctgactg cacaggcaat gaaaaacat gtgggtgatt	3360
tccagcagac ctgtgctatt ggccaggagg cctgagaaag caagcacgca ctctcagtca	3420
acatgacaga ttctggagga taaccagcag gagcagagat aacttcagga agtccatttt	3480
tgcccctgct tttgctttgg attatacctc accagctgca caaaatgcat tttttcgtat	3540
caaaaagtca ccactaaccc tccccagaa gctcaciaag gaaaacggag agagcgagcg	3600
agagagattt ccttggaat ttctcccaag ggcgaaagtc attggaattt ttaaatacata	3660
ggggaaaagc agtcctgttc taaatcctct tattcttttg gtttgtcaca aagaaggaac	3720
taagaagcag gacagaggca acgtggagag gctgaaaaca gtgcagagac gtttgacaat	3780
gagtcagtag cacaaaagag atgacattta cctagcatat aaaccctggg tgcctctgaa	3840
gaaactgcct tcattgtata tatgtgacta ttacatgta atcaacatgg gaacttttag	3900
gggaacctaa taagaaatcc caattttcag gagtgggtgt gtcaataaac gctctgtggc	3960
cagtgtaaaa gaaaaaaaaa aaaaattgtg gacatttctg ttctgtcca gataccattt	4020
ctcctagtat ttctttgtta tgtcccagaa ctgatgtttt ttttttaagg tactgaaaag	4080
aaatgaagtt gatgtatgtc ccaagttttg atgaaactgt atttgtaaaa aaaattttgt	4140

agtttaagta ttgtcataca gtgttcaaaa cccagccaa tgaccagcag ttggtatgaa	4200
gaacctttga cattttgtaa aaggccattt cttggggaaa aaaaaaaaaa aaaaaaaaaa	4260
aaaaaaaaaa aaaaaaaaaa	4279

<210> 4
 <211> 4915
 <212> DNA
 <213> Homo sapiens

<400> 4	
cacttgagcc gaagttaatt tctcggggag ttctcgggcg cgcacaggca gctcggtttg	60
ccctgcgatt gagctgcggg tcgcggcccg cgccggcctc tccaatggca aatgtgtgtg	120
gctggaggcg agcgcgaggc tttcggcaaa ggcagtcgag tgtttgacaga ccggggcgag	180
tcctgtgaaa gcagataaaa gaaaacattt attaacgtgt cattacgagg ggagcgcccc	240
gccggggctg tcgcactccc cgcggaacat ttggctccct ccagctccga gagaggagaa	300
gaagaaaagcg gaaaagaggc agattcacgt cgtttcagc caagtggacc tgatcgatgg	360
ccctcctgaa tttatcacga tatttgattt attagcgatg ccccctgggt tgtgtgttac	420
gcacacacac gtgcacacaa ggctctggct cgcttcctc cctcgtttcc agctcctggg	480
cgaatcccac atctgtttca actctccgcc gagggcgagc aggagcgaga gtgtgtcgag	540
tgagtgtgcg tctgtgtgtc ccggcgaggg tgcgcgctcg gcgccgggag cgcggccagc	600
cgagtccgga ggcatcgga ggtcgagagc cgccgggacc ccagctctgc gttcactgcc	660
ccgtccggag ctggacttcg gggccggggc cggggccgtg cgccggggac aggcagggcc	720
gggtcgcggg ccgcgcgtcc cccaggcccg agatctgcga gtgaagaggg acgagggaaa	780
agaaacaaag ccacagacgc aacttgagac tccgcgatcc caaaagaagc accagatcag	840
caaaaaaaga agatggggcc cccgagcctc gtgctgtgct tgctgtccgc aactgtgttc	900
tcctgtctgg gtggaagctc ggcttccctg tcgcaccacc gcctgaaagg caggtttcag	960
agggaccgca ggaacatccg cccaacatc atcctgggtg tgacggacga ccaggatgtg	1020
gagctggggt ccatgcaggt gatgaacaag acccggcgca tcatggagca gggcggggcg	1080
cacttcatca acgccttcgt gaccacacc atgtgtgcc cctcacgctc ctccatcctc	1140
actggcaagt acgtccacaa ccacaacacc tacaccaaca atgagaactg ctctcgccc	1200
tcctggcagg cacagcacga gagccgcacc ttgcccgtgt acctcaatag cactggctac	1260
cggacagctt tcttcgggaa gtatcttaat gaatacaacg gtccttacgt gccacccggc	1320

tggaaggagt	gggtcggact	ccttaaaaaac	tcccgttttt	ataactacac	gctgtgtcgg	1380
aacggggtga	aagagaagca	cggctccgac	tactccaagg	attacctcac	agacctcatc	1440
accaatgaca	gcgtgagctt	cttccgcacg	tccaagaaga	tgtacccgca	caggccagtc	1500
ctcatggtca	tcagccatgc	agccccccac	ggccctgagg	attcagcccc	acaatattca	1560
cgcctcttcc	caaacgcac	tcagcacatc	acgccgagct	acaactacgc	gccaaccccg	1620
gacaaacact	ggatcatgcg	ctacacgggg	cccatgaagc	ccatccacat	ggaattcacc	1680
aacatgctcc	agcggaagcg	cttgacagacc	ctcatgtcgg	tggacgactc	catggagacg	1740
atttacaaca	tgctggttga	gacgggagcg	ctggacaaca	cgtacatcgt	atacaccgcc	1800
gaccacggtt	accacatcgg	ccagtttggc	ctggtgaaag	ggaaatccat	gccatatgag	1860
tttgacatca	gggtcccgtt	ctacgtgagg	ggccccaacg	tggaagccgg	ctgtctgaat	1920
ccccacatcg	tcctcaacat	tgacctggcc	cccaccatcc	tggacattgc	aggcctggac	1980
atacctgcgg	atatggacgg	gaaatccatc	ctcaagctgc	tggacacgga	gcggccggtg	2040
aatcggtttc	acttgaaaaa	gaagatgagg	gtctggcggg	actccttctt	ggtggagaga	2100
ggcaagctgc	tacacaagag	agacaatgac	aaggtggacg	cccaggagga	gaactttctg	2160
cccaagtacc	agcgtgtgaa	ggacctgtgt	cagcgtgctg	agtaccagac	ggcgtgtgag	2220
cagctggggac	agaagtggca	gtgtgtggag	gacgccacgg	ggaagctgaa	gctgcataag	2280
tgcaagggcc	ccatgcggct	gggcggcagc	agagccctct	ccaacctcgt	gccaagtac	2340
tacgggcagg	gcagcgaggc	ctgcacctgt	gacagcgggg	actacaagct	cagcctggcc	2400
ggacgccgga	aaaaactctt	caagaagaag	tacaaggcca	gctatgtccg	cagtcgctcc	2460
atccgctcag	tggccatcga	ggtggacggc	aggggtgtacc	acgtaggcct	gggtgatgcc	2520
gcccagcccc	gaaacctcac	caagcggcac	tggccagggg	cccctgagga	ccaagatgac	2580
aaggatggtg	gggacttcag	tggcactgga	ggccttcccg	actactcagc	cgccaacccc	2640
attaaagtga	cacatcggtg	ctacatccta	gagaacgaca	cagtccagtg	tgacctggac	2700
ctgtacaagt	ccctgcaggc	ctggaaaagac	cacaagctgc	acatcgacca	cgagattgaa	2760
accctgcaga	acaaaattaa	gaacctgagg	gaagtccgag	gtcacctgaa	gaaaaagcgg	2820
ccagaagaat	gtgactgtca	caaaatcagc	taccacaccc	agcacaaaagg	ccgcctcaag	2880
cacagaggct	ccagtctgca	tcctttcagg	aagggcctgc	aagagaagga	caaggtgtgg	2940
ctgttgccggg	agcagaagcg	caagaagaaa	ctccgcaagc	tgctcaagcg	cctgcagaac	3000

aacgacacgt gcagcatgcc aggcctcacg tgcttcaccc acgacaacca gcactggcag	3060
acggcgccctt tctggacact ggggcctttc tgtgcctgca ccagcgccaa caataacacg	3120
tactggtgca tgaggaccat caatgagact cacaatttcc tcttctgtga atttgcaact	3180
ggcttcctag agtactttga tctcaacaca gaccctacc agctgatgaa tgcagtgaac	3240
acactggaca gggatgtcct caaccagcta cacgtacagc tcatggagct gaggagctgc	3300
aagggttaca agcagtgtaa cccccggact cgaaacatgg acctgggact taaagatgga	3360
ggaagctatg agcaatacag gcagtttcag cgtcgaaagt ggccagaaat gaagagacct	3420
tcttccaaat cactgggaca actgtgggaa ggctgggaa gtttaagaaac aacagagggtg	3480
gacctccaaa aacatagagg catcacctga ctgcacaggc aatgaaaaac catgtgggtg	3540
atttccagca gacctgtggt attggccagg aggcctgaga aagcaagcac gcactctcag	3600
tcaacatgac agattctgga ggataaccag caggagcaga gataacttca ggaagtccat	3660
ttttgcccct gcttttgctt tggattatac ctcaccagct gcacaaaatg cattttttcg	3720
tatcaaaaag tcaccactaa ccctcccca gaagctcaca aaggaaaacg gagagagcga	3780
gcgagagaga tttccttga aatttctccc aagggcgaaa gtcattggaa tttttaaatc	3840
ataggggaaa agcagtcctg ttctaaatcc tcttattctt ttggtttgtc acaaagaagg	3900
aactaagaag caggacagag gcaacgtgga gaggctgaaa acagtgcaga gacgtttgac	3960
aatgagtcag tagcacaaaa gagatgacat ttacctagca ctataaacc tggttgcctc	4020
tgaagaaact gccttcattg tatatatgtg actatttaca tgtaatcaac atgggaactt	4080
ttaggggaac ctaataagaa atcccaattt tcaggagtgg tgggtgtcaat aaacgctctg	4140
tggccagtgt aaaagaaaat ccctcgcagt tgtggacatt tctgttcctg tccagatacc	4200
atttctccta gtatttcttt gttatgtccc agaactgatg tttttttttt aagggtactga	4260
aaagaaatga agttgatgta tgtcccaagt tttgatgaaa ctgtatttgt aaaaaaatt	4320
ttgtagttta agtattgtca tacagtgttc aaaaccccag ccaatgacca gcagttggta	4380
tgaagaacct ttgacatfff gtaaaaggcc atttcttggg agtttttttg tgtgtctggt	4440
tttttaaagt attcaagata ctaccagtca acatcttttt ggaagaaaat gccttgggtt	4500
tagaagattt tcttaaaagg ggagtagatg gttgtagatt gactaaaaag tctaccatac	4560
ttcaagggaac tacaggtaag tctcatagta taccagcttt ggtacttcat tttttaaaaa	4620
agtattaatc aattgcaaag aaattcgcct tggccaaccc ttctttgtgt atcaggtagt	4680

ctaacctgat acaagtagtt gacagatttc aactatcaat caccagtcca acccatttct	4740
catttaacag atgacggaga taatccctaa aagcaccac atttgtttca atgccccaaa	4800
caggccaagg ctccctagca actccctagt ggcgtttttt aacttctcag aaactgttac	4860
cattatttga aataggcttc cttaacctcc ttaccctta acccaacagg gattt	4915

<210> 5
 <211> 86453
 <212> DNA
 <213> Homo sapiens

<400> 5	
gacccctagca ctttggggat tggaggtggg aggatcactt gaggccagga gttggagacc	60
agcctaaaca acacagtaac acccccagtt ctacaaaaca cacaaaaaat tagctagcaa	120
ggtggtgtgc gcttgtagtc ctagctgctt gggaggctga ggtgggagat tgcttgatct	180
caggagtttg aagctgcagt gagctatgac tgcaccacta cacttcagca tgggcaacag	240
tatgaaacct tgtctctaga aaataagtaa ataaataaat aattaaaaag gaaagacatg	300
gccggatgcg gtggcgcatg cctgtaatcc cagcactttg ggaggccaag gtgggtggat	360
cacctgaggt taggagtttg agaccagcct ggccaatgtg gtgaagctcc gtctctacta	420
aaaatacaaa aattagccgg gcatagtggc gtgtgcctgt aatcccagct actcgaaaag	480
ctgaggcagg aaaatcactt gaaccttggg ggtggagggt gtagtgagct gagatcatgc	540
tacagcactc cagcctgggc aacagagtga gacttcatct caaaaaaaaaa aaaaaaagtc	600
ataaggaaga gaaaatatac atattattca ttaagtggat catcataaag gtcttcattc	660
ttttcgtgag gttgagtagg cttgaggagg agaaagaaga ggaaatgttg gtcctactgt	720
cttaggcatg gcagaaatag agaaaaatct gcgtataaca gaacaaatgc agttcaaag	780
tggtgtacaa ggggttatgg tattcgtata tatgtatata catacaaata caaacataat	840
tttgggggaa gagaagaaat tccccctcct tatgtgtgaa tatttttaatg gcatttagtc	900
aaacatctga attagcctaa cttacatttg ctgtttcacc ttgtgaagac aaatttcccc	960
agattgcttg tgctggcaaa taacatttca tctaaccctt ttcttaactt tttttttttt	1020
tttttttttt tttgagacag actccctctg tcaccaggc tggagtgcag tgggtgtgac	1080
tcggcttact gcagcttctg cctcctggat tcaagcaatt ctcatgcctc agcctcccaa	1140
gtagctggga ttacaggcgt gcacggccac atccggctaa gttttgtatt tttggtagag	1200
atgggatttc accatgttgg ccaggctgaa actcctggcc tcaagtgcag tgctgcctt	1260

ggcctaaagt gctgggatta taggcgtgag ccactacgcc tggccccctt tcttaacttt	1320
taatattaca tcagaatagg aaaaatgaga atagaaaaag ctgtctagtt gccgagaaaa	1380
caatcatgct ttgcttagct aaatttcttt tggtaatccc atcattctct tggttagcta	1440
ggtttgaaat ctgagttgtc tttgaatccc accgtactct gattcatttg gtaagcaggc	1500
tttatctggc tttctatttt catgtgtcct gtatttgttc cactttctgt tcctaatttt	1560
agcttccgag gccaaagacc cataatttca tgagggtgtt tttccttgtc tctactgctt	1620
ccttgtccac tcacttaaaa tttagctaga ttttcctaaa tgtatacttt tagccaagct	1680
tatgtttgtc tctaagtttt gtgctacctt tccttggctt acagaaagaa aaagtacaaa	1740
ctcccttctc tgacatttca aatggtactt tatctgagaa tctatccaag ttaccagcct	1800
taggtcttgc aatttccctg taaaatccct cagttaattg tgatatatac ccattcttct	1860
gaacatggca gagaactatc tccacagggt tttttttttt ttttttgaga cagagtttgt	1920
taccagctt ggagtgcaat ggcgcgatct tgtttcactg caacctccac ttccagggtc	1980
aagtgattct cctgcctcag cctcctgagt agctgggatt acaggcacgc gccaccctgc	2040
ccggctaatt ttgtattttt agtagagacg gggtttcacc atgttggcca ggctggctt	2100
gaactcctga ccttaggtga tctacctgcc tcggcctccc aaagtgctgg ggttacagg	2160
gtgaaccact gtgctcggcc aattttttct tttttaata ctttttattt ggaagtatac	2220
atttacaaaa gttacaaaaa tatagtataa agaacatctg gatatccgtt atccagactt	2280
accacttgc ttatttgtat ttgtgctgtc ctactctctt ttctcttttt ctaccacgt	2340
aaacacacac acaatttttt tttttaacca ttgaggggtg agttacatat gttatgcttc	2400
tttcccctaa tacttctgtt gtattcctac agataggggtc attctcttat ataaccatgg	2460
tacagttaat aacttcataa atggacatcg atgaaatcta tcgcccata tccagttttg	2520
tcagttgacc taagaaagtc tcttgtagca ttttctatgc ttctgtata gactacagtc	2580
tggggtcagg ttctgcattc agttattatt tctctttggc ctcttttttc ctgggatatt	2640
ttcacagcct gtctttatct cttatgacat tggcattttt gagaacacaa cccttcccta	2700
acccttttac tctgttcagt ggagatgttc ttcattttat gttgggtctga aatttccttg	2760
tgattagatt aagatgttat ggattcttgg caggaatact gcatccgcaa tgtgatactc	2820
tgagatggag tcatatgacg tccgtctgtc ccttattgtg atgcaaattt tgatcccttg	2880
gccaagggtgt tgccagattt ctccaccatt tgggtttttt gccctctctt ttgccaagca	2940
ataagcagct tgtggggaaa caatgcagat attctgattc ttttcacggt ttcttctaga	3000

tttagcatcc attgactcct gtctgatcca gcttttttatt gtgatgattg caaaatggtc	3060
atTTTTTtct ttccagcatt cctttcccat taccgctcgg atcttggtctg tattccataa	3120
tcaatagccc tatgtattgg tgatggattc atgaattcct atTTTTtgaa tggtttacaa	3180
ttcacttacc ctgcttaatt attttagtgc tcaaattgtc ctagaagttt ggctagttaa	3240
actcctgtaa gtgggcccgt gtgtccttgt ggggaataaa agttttagag accaagatct	3300
ctctgagtgc taggtgtcct cactacttct gggctgtttt ctcatcttgg cctttttagt	3360
ggatagagct aggaataat atgcatgctt atacacatac atgtacatat acatactcat	3420
acagtcatcc ctctgtacct gagggtgatt ggggtctaaga ccctttgtgt gcacccaaat	3480
ctgctgatgc ttaagtctt taaactataa agtagcaatt gtatttgcataaataccatg	3540
ttcaatttct tgtatgctt aagtcactc tagattactt ataagaatct aacacagtgt	3600
aaatactgtg taggttgttg ttaaactgta ttttttaatt tgtattttat tgctgtattg	3660
tttttttaaa tttatttttt gagtattttt gatccatgga tgcagaatcc acgatacaga	3720
gggccgactt cgcattgtgt cattgaaaca tacatatata tatttttagaa atcatgagct	3780
tatatcagta tgtactctt tattccatgt ctacagggtt ctttgtactt cattttttat	3840
ttttatgtcc ctattatta tgtgggaatc ctgactctca accttagtac atttactcat	3900
ttgcctaata ctctaataca tctaaaataa tttcagaatt ggttttttca tttcactgca	3960
ataaacaac tgaaaatgag tggagcattt gtctataatt ctctccacc tcccaatttt	4020
accaagacc gagagtaaac agttaaaatt taaattgctt ggattagccc tccataccct	4080
ttctccacc cacttttttt tttttttttt tttttttttt gaggcagtct tggttgctca	4140
ggctggagtg cagtgggtgc accttggtc actgcaacct ctgccttctg ggttcatggg	4200
attcttctgc ctacgctcc tgagtagctg caactacagg tgcgtgccac catgcccagc	4260
taatttttgt atctttaata gagacagggt ctaccacgt tgcccaagct ggtctccaac	4320
tcctgaggtc agcgatccg cccgcctctg cctcccaagg tgctgggatt acaggagtga	4380
gccaccacgc ccgacctcca cccactttt acttcccacc ttactttctg tataaactag	4440
ttagggatatt catttgaaac aaaattaagt ttatttactt gtttgcttat gctgcctccc	4500
attctgattt ttatttttgt aatatgtaga ataataacat gctttcaaaa gtcaaaatta	4560
tacaaaaggc atacattgct tttgtatccc tccatgcca tttttcttca gttttcttag	4620
gtaaccaact taaatgtttt ctgtcttata ctcccatctt cttttttttg atggtatctg	4680

tatgttttat ttatttat	atacaaaaga tagcgtacta	tatatactct tgcactttgc	4740
tttttttcct acttaactga	tatctcctgg aaataatgcc	ctatcatgcc aaagagatct	4800
ttcccattca tttattttaa	ttgtagtaaa atttacagaa	tataaaatac aacttttttt	4860
tcttttaaag actgaatttg	gctcttgtct ctcaggctgg	agtacagtgg tgcaatctca	4920
gctcactgca acctctgcct	cccagggtca agagattctc	ctgcctcagc ctcccaagta	4980
tctgggacta caaatgcca	acagcatgcc cgtctaattt	ttgtattttt ttttagtaga	5040
gacagggttt caccatgttg	accaggctgg tttcaaactc	ctgacctcag gtgatccacc	5100
cgcctcagct tcccaaagtg	cttggggagta agctacaggt	gtaagccatt gtgcccggcc	5160
agaggaccaa cttttgatta	aattatagat atccagttcc	agggtatatt gtagaaaaga	5220
tgttcctttt ttcttggtt	gctttggtaa cttgattaat	tgattatatt tgccaaagtc	5280
tctttctggc ctctattcag	tgccatctc atgcccata	tacattgtctg attataggac	5340
tttatttatt tttttgagat	agagtctcgc tctgtcactc	aggctgacgt gcagtggcgc	5400
acctcagct cactgcaacc	tctgcctccc tggttcaagt	gattctcctg cccagcctc	5460
ctgagtagct gggattacag	gtgcccacta ctaagcccag	ctaatttttt ttttttaagt	5520
agtgacgggg ttttgccatg	ttgtccagggt tgatctcgag	ctcctgactc aggtgataca	5580
ccctccttga cctcccaaag	ttctgggatt ataggcatga	gccactgcac ctggctgact	5640
tgaactttta aagtctcttt	tatttggtct tttatcctga	aactaggaaa caaatacaat	5700
acctctcca ccagatttca	cttggaatac ttataaattt	ggatgaagtc atctcttggt	5760
caggttccct aaatttactg	agtcattggc tgccactaag	tgaccttcca tctgtgaagc	5820
tagtccctgt aaaccaagaa	cagggtaccag gcccataaac	attgacttct tgtataatgt	5880
aaaatctttg ttttcttttt	aaaaaaattt ttttaatttat	aagatgttta tttaaaatgt	5940
tttgtggaag tgaggatatca	ctatatggcc taggctagtc	ttgaactcct gggctcaa	6000
aatccccctg cattggtttc	ccaagtgtt ggtgctggga	ttacagggtg gagccactgt	6060
gtcctgccct actatctttg	ttatagtggg ggacttgtca	tacgattata ttataattat	6120
atgacattat atcattatat	tgttcttaat tataagaaat	agtatatgac ctagattgta	6180
caatgatttg tccagttatc	ctggtaaatt ttatttacct	ttgtcttgac ggaatttgat	6240
taagcctatg caaataacgt	tattaacatg aaaaaataga	cttagttttt actttatttt	6300
gagggtgggg ctcactctct	tgacctacct ggagtgcagt	ggtatgattg tggctcattg	6360
caatcttgaa ttctgggact	caagcagtc tgccctcagcc	tcctgagtag ctgggactac	6420

aggcatgcg	caccgctctc	aaatgccatt	taaaaatttt	cctacaaaag	cataatat	6480
taaattgtga	gctagaggta	gatgaagaag	aaaggaaaag	ggcttcctca	tatagccatc	6540
agaaaacaga	atattaaaaa	ataacaccag	cctgggcaat	atggtaagac	cccgtctcta	6600
caaaaataaa	aaataaaaaa	attaactggg	cattgtgtgt	cacatgcctg	tggtcccagc	6660
tgctggggag	gctgaggtag	gaggatcgct	tgacgctggg	aggctgatgc	ctcagtgagc	6720
cgatgatcga	ccatcgacc	ccatcctggg	caagagacca	agaccctgcc	tcaaaacaaa	6780
acaaaaaacg	gctgggcatg	gtggctcata	cctgtagtcc	cagcactttg	ggaggctgag	6840
gcaggttgat	cacctgaggt	caggagttca	agaccagcct	gaccaacgtg	gtgaaacctc	6900
tctctactaa	aaacgtaaaa	attagctggg	ggtggtgatg	ggtgcctgta	atcccagcta	6960
ctcggggaggc	tgaggcataa	gaatcacttg	aaccccgagg	ggcagaggct	gcagtgagcc	7020
gagatcgcac	cattgcattc	cagcctggga	aacagagtaa	gattgtgtct	caagacaaaa	7080
aacaaaagac	aaaagaaaaa	acaaaagaaa	aaaccatagt	ctgaaacaac	tggttaaatt	7140
tctgccacta	gttcatttag	tcctatgcag	ttaattctgt	ttctcttagg	cttattctgt	7200
agtcactttt	aagttgtctg	cttagatggt	taagatacct	agacattttg	gccttttagta	7260
tagttttaaa	atttaaaaaa	gttagctcag	tagttcattg	cccagagtat	ttcataaatt	7320
atcaagattt	aaaggctact	tgtacagtct	tttgcagtga	aatcttcaac	tgtcctttga	7380
agacaaaatta	tagcatatga	gtcctcaagg	gaagcatcgg	agagtagcag	aagccatcac	7440
ccatttgaca	gtaagacatt	tctggtactc	ttcattcatc	tttatagatg	tgcattttca	7500
tctgatgccc	ctttctcttt	ggcctgaagg	atataatttc	atttccagaa	ttgtttatca	7560
ctgattgtct	caacttttat	ttatctgaaa	atgtctttat	ttcaccctat	ttttgaaggt	7620
ttggttcact	ggatagaaaa	ttctgggttg	ttgatttttt	tatttcagca	ctttaaagtt	7680
gttctgtggt	gttgtaacct	cctccccttt	ttttttttga	agagttgatt	tttaatcttg	7740
ttctcagtat	gtgtggtcct	tttttcttgt	ggatactttt	aagattttct	ttttacgttt	7800
ggtttaaaat	agtttgacta	tgtatttagg	tctagttttc	tttgtattta	tcctgcatgg	7860
tattctttga	gcttcttgga	tttgtaaatt	tgtgttttca	tcaaatatgg	aaagttttgg	7920
ccattcttca	agtacttttt	ctgcatctct	gcttcaattt	aattctcctt	cctctgggac	7980
tccaatcata	cttgctaggc	catttgattt	tcttttggtt	tgagggtggag	tttcgttctt	8040
gtaccccagg	ctggagtgca	gtggtgctct	tttggtcac	tgcaacctcc	gcctcctggg	8100

ttcaagcaat tctcctgcct cagctcctga gtagctggga ttacagggtgc ttgccaccac	8160
acctggctaa ttttttttgt attttttagta gagatgggggt tttgccatgt tggccaggct	8220
ggctcttgaa tcttgacctc aggtgatcca tctgccccag cctcccaaag tgctgggatt	8280
acagggtgtga gccaccaggc ccagccgacc atttgatatg tttataagtc attaagggttc	8340
taaccatttt tcttcagtct tcttcctttc tcttcttcaa attggataat tcttttgata	8400
tcccttcaag ttcagtgact ttttctgcca actcaatttc taagcactat tcaacaatga	8460
aatactttta cctcttattt cattcctaca gccctgtggt ggggttgata gaggcttcag	8520
aaaaggtaac aggtttatca aagttatata cctagtttgt ggcagaactg aaattagaac	8580
ctaacttgat tgtttacaaa ctacagacca ttttctttcc ataatgccat gatctttatc	8640
ttctaataag ttgctgtcag ttaaaatgtt catactgtaa ctgggtgtgag tgggtggcct	8700
ggtagcggat gctacttaat taacaacatt gtcaaattgc agaaaattga agttcttctc	8760
atttaaaaaa cggttttcag ttgaagaatt taagtatcct gaagtcagta ataccttgaa	8820
ctaacttttt tagatgacat tcctccagca gtgaaagtat gtctgtgggt actcaacaga	8880
aaaatttaat tctaatagaca gactgttttt ttgagacaga gttttgctct tgttgcccag	8940
gctggagtg c agtagtgtga tctcctctca ctacaatctc tgccctccag gttcaagcga	9000
ttttcctgcc tcagcctctc aagtagctcg gggttacaggc atccgccacc acaccctgct	9060
aatgttttgt atttttaga gatggagttt caccatgttg gccaggctgg tcttgacctc	9120
ctgacctcag gtgatccacc tgccctcgcc tcccaaagtg ctgggactac aggcctgagc	9180
cactgcacc gccaccaca tacgttttaa aatcaagact ttggaatccc agactgcggt	9240
atcattcatt gtctcgaaa ttaactcttt ggagtacctc ctcttgagtt gatggatttt	9300
tttttttttt tttttttttt ttttgagaca gtctcgctct gttgcccagg ctggagtgca	9360
gtggtgcgtc gcggctcact gcaagctcca cctcccgggt tcactccatt ctctgcctc	9420
agcctccga gtagctgca ctacaggcgc ccgccaccac gcccgctaa ttttttttgt	9480
attttttagta gagatgggggt ttcacatgt tagccaggat ggtctcgatc tcctgacctc	9540
gtgatccgcc tgccctcgcc tcccaaagcg ctaggattac agacgtgagc cactgcgcct	9600
ggccaagtgt atggatttaa cttcatgaaa atttttaaac cagtttttgt gtcattcttag	9660
ttaaaataag aacattataa agtttggtaa aggaatgaaa gcattactaa gccaggataa	9720
ttatcaagt cctttatata aacattttcc taaaattcta gtttctaaag ttctgttaga	9780
accttataag ataattagta gtatgggaaa agaattactg gcataagaat gacattctta	9840

gtttagtagtaa	ccgtatatatt	atattttctcc	ttcagttttat	tttgaaatta	aattttctaaa	9900
gttttaaaggt	aaacattttta	attataaaatt	ctgcattcat	gccttctaata	taaaatatga	9960
accaaattca	tagaaatcct	ataaggcaac	gattacttaa	aaaccaaaaca	acttaagtga	10020
attgtttttta	ggtttgtatt	gccttatgta	taaaaatcaa	catttgttga	ttttgccttg	10080
gatataacac	ctctcatatt	taaagccaga	aaacacatgt	tgccagatgg	gaactaggaa	10140
gagtagtagt	ctcatcttgg	catcattttc	ttcataatga	ccagttcact	tgttttacac	10200
ataatctcag	gttctttcca	gctttaattt	tctatgattg	acggatcaga	ttctacatta	10260
cggaaccttt	tagttacctg	ctaactgctg	ttacaccact	caagatgcgt	gataaccagt	10320
cagattagaa	gatgaaagtc	ttggccaggt	gcagtggctc	atgcctgtaa	tcctagcact	10380
ttgggaggcc	taggtgggca	gatcacttga	ggtcaggagt	tcgaaaccag	cctggccaac	10440
atgatgagat	ctcgtctcta	ctaaaaatac	aaaacaatta	gcctggcgtg	ttggcaggca	10500
cctgtaatcc	cagctactca	ggaggctgag	gcaggagaat	cccttgaacc	tgggaggtgg	10560
aggttgcagt	gagtggagat	tgtgccactg	cactccaggc	tgggcgacag	agcgagactc	10620
tgtctcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaagag	aagatgaaag	tcttcatgat	10680
attgctgggc	acggtggctc	acgcctgtaa	tcccagcact	ttggaaggct	gaggtgggca	10740
gaataacctga	tttttttttt	tttttttttt	tggagacagt	tttgctgttg	ccgcccagtc	10800
tggagcgcag	taccgcgac	tcagctcact	gcaacctctg	ccttccgagt	tcaagtaatt	10860
ctcctgcctc	agcctcctga	gtagctggga	ttacaggcac	ccgccaccac	gactggctaa	10920
tttttgtatt	tttagtagag	atggaatttt	gccacgctgg	ccaggctggt	ctcgatcccc	10980
tgacctcagg	caatccgcct	gcctttgcct	cccaaagtga	tgggattaca	ggtgtgagcc	11040
accacgcca	gcctttaaaa	tgaccttttt	ttttttttta	aagacactct	cactctgtca	11100
ccctagttag	agtgacgcg	cgccatctcg	gctcactgca	acctctgcct	gttgggttca	11160
agcgattctg	ctgcctcagc	tccttgagta	gctgggacta	caggcacgta	ccaccatgcc	11220
cagctaattt	tttattttta	gtagagatgg	ggtttcacca	tggtggccag	gctgggtctca	11280
aacttctgac	ctcaggtgat	ccgcccgcct	tggcctacca	aagtgtgctg	ggattacagg	11340
agtgagccac	cacgcctggc	cttaaaaataa	tttttttacag	gagatatcta	tagggatagg	11400
tcaagaatct	acagtccttg	gctggcgctt	aacttgcaaa	ggaccgtgat	ttataactgg	11460
ttttaaattt	tttagactgg	tgggatcttc	cacttgggtg	ggctggaaaa	gagtgattta	11520

ttattggaag	tccagtaagg	ccagttctat	ctaaactgtt	agaatagctg	taagtgatgt	11580
ggctttactg	agattccatg	aaaaaaataa	aatatttgat	gccatgacat	aaggcttttt	11640
ttttttttaa	ttttttggtg	ggattgggta	aaagcttggc	tctgaagtta	gaatgacttg	11700
gatttaattt	ctagctccac	cacttactgg	atgtatgact	ttgggttgag	tttacctttc	11760
gatgtctcag	tgttttcaag	tgaagtaggg	ataatattga	actgtacttt	catctagctc	11820
actattctgt	gtttcatagg	gctgtcagga	ggattaaatg	ggagtaataa	gtggaatgca	11880
tttatcacia	tacctcactc	agatgttaga	gcaagtattt	gttcacatag	tgatttttta	11940
ctttaaacac	taaaattaca	cattattttt	atataaataa	agagtatata	ttattttgaat	12000
tatgaagtat	actttgaagg	ctattcttga	accactcct	tgaactgaag	aacgggacgg	12060
tcagttcgta	tagtgtacct	gctccctgaa	tctttcttcc	cgaagtcatc	ctgcttctat	12120
ccttgaagtc	acagctatct	ttgagttaat	aattaacttc	atttaaaaaa	ctttgaaaaa	12180
gtctcatttg	gatgtgtcct	tgaacaatgt	ttagttttct	tgtttttttt	agctttccaa	12240
aaatataatg	gatgtaatgt	ggtggctttc	taaattgtaa	gatccaacca	tgttgtgtat	12300
aattcatttt	taccatccct	gtattgtatt	cttttgcatg	gcttcattag	aattcatttt	12360
tcaaactctgc	aattgataaa	cattagagtt	tcttctagct	tttgaagtgt	gaacaacggt	12420
gcaatgatca	ttttttgtat	ctcgtttaaa	atatttttat	tgctctaaag	ttttaaacia	12480
acttgatttt	aactgctaata	atatttgctt	tcaatgtggg	ggtactactt	tagaaaaagt	12540
aaattttctt	tcttttttta	aatttttagac	agggctctac	actgttgccc	aggctgaact	12600
gcagtgccat	gatcttggct	tactgcagcc	tctgccgccc	agtctcaagc	gatactccca	12660
cctcagcctc	ttgagtagct	gggactacag	gcgcttgcca	ccacacttga	ctaattaata	12720
tttttacatt	tttggtagag	atggggattt	caacatgttg	cccaggggtg	tctcgaactg	12780
agctcaagcg	atccacctgc	ctcggcctcc	tgaagtgtctg	ggattacagg	tgtgaggcac	12840
catactaagc	caaaagtaaa	ttttcttact	gaaatgtttt	atacattggt	tcttgtttta	12900
ttagctaagt	tatttcatat	cactttttat	ttatcatagg	attagcaata	agcactgtaa	12960
ttttccttaa	gtacttgatt	tcaaaaaaac	aactttatta	aagcataata	tacatacaaa	13020
atatttacca	accttacatt	tacaatttaa	tgagtgttga	caaagtgtgac	catcaccaca	13080
gtcatgatat	aaaacatttc	taccattccc	taaagtctct	tgtgcctctg	tgcaatcagt	13140
catctccact	ggtccctagc	aaccagaaga	aacctccaac	tggtctgctt	tatgtcacta	13200
ctgttttacc	ttttctaaaa	tttcatgtga	atagtattcc	cattttgtgt	gtgttacacc	13260

ttttataatt	gtcccacat	tcttgatat	tcttttcttt	ttcattttct	ctttcttttt	13320
cagttttggg	gagtttgat	tgatcttaag	gctctctggt	ctcccactcc	tatgtttggt	13380
ctactgatga	gcccataaaa	ggcattttgc	atttctgtta	gtcttttttg	attctaacct	13440
gtgctttttt	tttttttttt	gggaggggga	gatggagttt	cgctctgtcg	cctaggctgg	13500
agtgcagtgg	tgcatctctg	gctaaactgta	acctctgcct	cccgggttca	tgccattctc	13560
ctgcctcagc	ctcccagata	gctgggatta	caggtactcg	ccaccaagcc	cagctacttt	13620
ttgtgttttt	agtagagata	gggtctctcc	atattgtcca	ggctggtctt	gaactcctga	13680
cctcaggtga	tccaccggcc	tcggcctccc	aaagtgctgg	gattacaggt	gtgagccacc	13740
gcacctggcc	taacctttcc	ttttgattcc	tccttagagt	ttttatctct	ctgcttacat	13800
tacctatctc	ttcttgcatg	ttgtctgctt	tccccattag	agcccgttaa	catattaatc	13860
atagttaaga	ttccatgatt	ggtttttaga	tttttagaat	aaatgttttt	aaagaaccag	13920
gcttctgccg	ggcgtggtgg	ctcacgcctg	taatcccagc	actttaggag	gccgaggtgg	13980
gcggatcatg	aggtcaggag	attgagacca	tcctggctaa	cgcaatgaaa	ccccatctcc	14040
actaaaaaat	acaaaaaaat	tagccaggcg	tggtggcggg	cgctgtagt	cccagctact	14100
ctggaggctg	aggcaggaga	atggcgtgaa	tgtgggaggc	ggagcttgca	gtgagccaag	14160
atcacgccac	tgactccag	cctgggcgat	agggcgagac	tctgtctcaa	aaaaaaaaaa	14220
aaaaaaaaaga	acctggcttc	tttactgttt	actagcgaac	tttggaagca	tcattttacat	14280
gtattatcaa	acctgttttt	attttatttt	attttgagat	ggagtttcgc	tctgtcgtct	14340
aggttggagt	gccgtggcac	aatctctgct	cactgcaacc	tccacctcct	gggttcacgc	14400
ggttctcctg	cctcagcctc	ctgagtagct	gggattacag	gtgcgtgcca	ccatgcctgg	14460
ctaatttttg	ttatttttag	tagagacagg	gtttcaccat	gttggccaaag	ctggtctcga	14520
actcctgacc	tcaagtgatc	ctcctgcctt	ggcctcccaa	agtgctggga	ttacaggcat	14580
gagccaccac	acctggctga	aacctatttt	tattattagt	gctcatgatt	tctcatttaa	14640
gaatatacat	aatcacacag	cttacacaca	aatattcata	gcaacagtat	tcatagtagc	14700
agaacaacaa	cttaaatttc	catcagctga	taggtgcata	aataaaatgt	ggtgtatcca	14760
tacagtgaag	tattagccag	aaataaaaag	caatgaagta	cagtcatgta	gcatataaca	14820
atgtttcagt	caatgaagga	ataggaccac	atatatgaca	gtggttccat	aagattatac	14880
tgtattttta	ctgtaccttt	tctatgttta	gatatgctta	gatacacaaa	taccattgta	14940

ttacacttgc	ctgcgctatt	caatatatta	acatgcagta	taggtatagg	tttgttgcgt	15000
aggagctgta	ggctatacca	tatagcctag	atthaggtctg	tattatctag	gtttgttaag	15060
ggacactctg	tgatgtttgc	acaatgatga	aatggaatga	aggcacattt	ctcgtaatgt	15120
atccctgtca	ttaagctagg	catgactgaa	ccgatatgtg	ctacaatggt	gatgtatttg	15180
aaaacactat	gctaagtaaa	agaagccagt	cacaaagaac	tagatattgt	gtgatgccat	15240
ttatatataa	tgtcctgaat	aggtaaattc	ataaagacgc	aaatacgtaa	gtggttgtca	15300
agggcagggg	tgaatagggtg	gaagggtggg	ttatatgagg	ttgagggggg	gggaatggga	15360
gcagggggga	ataacagcta	agggattttg	agttcttttt	gggataatga	aaatgttcta	15420
aaattgatta	cagtgcaggt	tacacaactc	tgaaatatac	taaaagccag	tcgtgcactt	15480
taagcatata	atatgtgaat	taatatctca	gtaaagctgt	taaagaatct	agctgatgta	15540
tgcaaaactg	ctaagaacac	tatgatgtca	tacagaaaatt	ttatggaaaa	atattacttt	15600
cctcatgaca	ctgatctcaa	aaggtttcct	atctcaaaca	ttgttagatt	tcaaaaataa	15660
gatgttaatt	gcactcactt	caaattttta	aaaaccttat	tcagtctttt	tatagaggtc	15720
atcctgtaat	tatatggtca	atatgaattc	cagcagcata	tctttttcat	gtgtcaagaa	15780
agtttacatt	gaaaagattg	cattcttaaa	aagaccatac	ccagatccat	ctccacttcc	15840
tgtttgtcca	ctaaacattt	gtgagatatt	tatggctatc	ttgcgcaatg	cctccagaaa	15900
tcaatgtttg	ctctcaagtt	tataactaca	gtttaaaaaa	aattcaccaa	aaaattcata	15960
atcctgggtg	atctgctggt	taggactagt	tagttaagtg	cagtatatac	aagtagaaaa	16020
gctccaatta	ttttacttga	gatgatctga	tggctaattc	tctcacttcc	tttgtgtgtg	16080
tgtgtgtgtg	tgtgtgtgtg	tgtgtgtatt	ttatatattt	tatatatata	tattttttta	16140
tttttatttt	ttttgagatg	gagtcttgct	gtgttgccca	ggctggagtg	cagtggcacg	16200
atcttggttc	actgcaagct	ccacctcccg	ggttcacgcc	attctcctgc	cttagcctcc	16260
caagtagctg	ggactacagg	cgcccaccac	cacgcccagc	taattttttg	tatttttagt	16320
agagacagga	tttcatcatg	ttggccagac	tggctctgaa	ctcgtgacct	cagacaatct	16380
gcccgcctcg	gcctcccaaa	gtggtgggat	ttcaggcgtg	agccaccgcg	catggccgca	16440
tttataattt	taaaagctta	aatgtgtttt	tttttttttg	cgggcgtgtg	ggttggggga	16500
gatggagtct	cagtctgtca	cccaggctct	agtgcagtg	tgtgatctcg	gctcacttca	16560
gcctccgcct	tccaagctca	gtcctgccac	ctaagccacc	caagtagctg	ggactacagg	16620
cgtacactag	cacaccacgc	taacgttttg	tatttttggt	agagatgggg	ttttgccatg	16680

ttgccagtc	tggtttcgaa	ctcctgggct	caagctatct	gccctccttg	gcctcccaaa	16740
gtgttgggat	tacgggcatg	agccactgtc	cctggcaaaa	aaaaaaaaaa	aaaaagatag	16800
aattcaaaaa	ttgtatcttg	aatttagtgt	tgctcatatg	acaacttact	gtaaaaggta	16860
atztatttta	agtataggtc	acatactata	caggggatgc	tttcaaaaaga	caattcctat	16920
tgataattgt	atztatattat	taaagtcaaa	gaatgtctta	gtctgctttc	tggtgttctg	16980
ttctagtgtt	ctggctcttct	agggttagaa	actaggtagt	ttataaaaaga	aaggtttatt	17040
tagcacatga	ttctggaagc	tgggaagtct	gagatctggt	cagcttctgg	tgagggcctt	17100
gtgccatgtc	gtaacaccac	ggtggagaag	aggaagggga	agcaggcatg	tgcaaagtta	17160
ccaacacaag	aggtggtctc	actttgtaac	aacctactct	ttagtccaaa	cctgtgggag	17220
caagaactca	agggagtga	aaaggcatta	atccatctta	acgacttact	tgctctttaa	17280
aggcaccact	tccgaatacc	acatcgcgga	ccaagcctca	acatgagttt	tgtggagata	17340
aactatattc	aaaccatagc	aaagaccaa	ggttatggcg	gtttactttc	tgctaagctt	17400
tcagatatag	acatgaaaat	cgttagatcg	gtaataatat	agctttatag	tacttaattt	17460
tgtaacttaa	ttaagaaata	gaattagcct	aaatatcagc	tcaataatct	aataaaaagg	17520
gaactgctgt	acaaatagtc	cagtttgtat	cactgttata	aatgagccta	tctcatgtgc	17580
caaactttta	gagtaattgc	cttcttacga	ttttgtctgt	ttccaaaaac	ttctaattgg	17640
agtatgcttt	tgaatctgtg	taatatttaa	catataaagc	ctgcattatt	tagaagttga	17700
tattgaaaac	ctttaaactt	ctgacctcaa	atagaatttg	cttatgtata	accattacat	17760
gcagctgggtg	ggttcaaaaat	tgcgttttct	gggtctctgc	tctgtgaaaa	atagtatgta	17820
ttggacatga	gtacatgaca	gctgacattt	atcaaggata	acagggggag	ccatattcat	17880
tttcacattt	taaagcaact	ttgaaagctt	tgcatgtgca	cacatgctca	acatatgttc	17940
ctaagcttta	aatatatattt	ccatcatgta	ttgcttatca	ttaatataag	aaactaagtg	18000
taaatcttta	atgagctcaa	tatattaaac	ttatatgagt	acacaagcat	ttggaagatc	18060
agcaatgcag	gctacttcat	tcattttacat	ggaatttatc	ttttatagtt	tctgtgctat	18120
tacaaataat	gtaacacatt	ccagatagcc	cttttgttat	atagtgtttg	atttggccct	18180
tctttaattt	cattaccata	aaattttgtc	ctggtgtaga	agactaaatg	gtagaaatta	18240
acttttttct	aaaccaacta	ttgttatatt	gctgttctct	ttgccaaagct	atztataggg	18300
ctatttttact	ggaggggtgac	ataaatagaa	ttggaatggc	ataattgtta	gtctgagttc	18360

ttagccttta	aaaattttct	ttaaattgtg	ataattcaaa	aagaattcta	gaataaaaact	18420
gtaaagctca	taatgttgcc	aacttgttaa	ttaaaataac	accttttgtg	gttggtatag	18480
gtttcagata	ctgtgaccat	ttaatatatt	tatatgcaga	tcacattgac	ttgctgcaag	18540
gtaacaggag	aaatgctttg	acttcagaag	ataaattggc	catgcacagc	tgtaatccta	18600
ctgtcttttc	atttccagac	atgattcagt	agtttaaggc	tttgattcct	aggcgctgag	18660
aagaaagttg	aaatttatit	ttgtgtatga	gaatttttac	ttagggtttt	gataagtcta	18720
gtttgtggtg	tgaagggtacc	atctaaactg	ttgggtgtttc	cataactaaa	tagctctctc	18780
ttaattttat	ttgaaatatg	agaagcctga	gtttctttcc	attttccttt	tggcagttgg	18840
aaaggaagcc	atcttattaa	gagtgatgaa	tagtgaaggg	ttttttttag	gctaaaattgc	18900
cagtgtcttt	agattaaaaa	aaattgcaga	gcgataagtt	atgaacgtta	acatgatttt	18960
tcaaggaaga	agtaatcctt	agtcacttgt	aaccctaatg	cctttcctaa	taagagttcc	19020
gtttctacaa	attcttttga	cagagaagtg	tatgatatca	gagaggtttt	tagaaaacat	19080
tttaagtgcc	ataagaacaa	ttcaagacca	ctacccaaaac	ttcatttgaa	gatcttagca	19140
tctttgagaa	tttagtatit	ctcaagagac	atctcttaaa	ttctcctgta	ggcaccaaga	19200
tttagacaat	ttgcttaatt	tattcagcta	attaaatggg	agagttccct	gacccccctc	19260
acaggacgtg	cgacagggct	gtggctcatc	tgttccgtgc	tctcaaacc	cttttgggag	19320
gaggagcatg	cgtgcaggca	ggtgcaggat	ctggggcgag	tgcccctggg	ctctgttctc	19380
atgggagtg	ccaggggtgg	gagtctgcaa	ctccccaagc	ccaagtaggc	atgtgttaca	19440
gtatgctctt	tttgctttgc	cgaccatgga	cggttaagt	gttaaacagc	tcagggcctt	19500
cttggtattc	aggtccttgt	ccagcatcga	ggaagaatca	ggtcacacac	ggacttgagg	19560
atggtgaatg	tggggatttt	attgagtgat	ggagttggct	gtcagttgga	tggatgagga	19620
gctggaaaagg	ggatggagtg	ggaaaatgat	cttcccctgg	aatttggcca	tccagtggcc	19680
catctcctct	ctgaccgtcc	tcagccgaac	tcctcttggt	gttcagatgt	tccttctctt	19740
ctttctctgc	cgtgccattc	tgccattctt	ctgctcttct	gtttgtctcc	ttgtggagcc	19800
gggggcttgg	ggtttatatg	ggtacaggat	atgggggcgt	ggtgggtcaa	aaggcaactt	19860
ttaggcatga	aaacaggaat	gtttgttctc	atttagggtc	atgggttttc	aggcttgagt	19920
ggggcctttg	ccaggggaact	gccttcttct	accagttatt	tccctgtctc	ctgtctgtat	19980
cagtaatata	ggaattagaa	aacacaaata	tctttttttg	taaactaggt	tgtagatctg	20040
tttgtagtta	agaggccaaa	ttccattttt	cttaattacc	ttgattctgt	ctgtaaatgg	20100

tacagttctt	gagggagcca	tttttcgaga	gcctaccatt	tgccagacat	cactgaggtt	20160
ttgttttacc	tgtgggtttt	aatcctctca	acaactttgt	aaaggtgatg	gatgtgcatt	20220
ttagagaaga	tgaaattgag	cttcagagat	gtaaatttgg	taaggtcatg	ctgagctcaa	20280
atcagctgtt	aagtctgtgt	tcttttcccc	tcttcactat	gcttcattta	agttggattc	20340
gttgttttct	tgttcactaa	tgatgtgtgc	ttgtgtgtcc	agtttaggaa	ttaaccttgt	20400
ctattgattc	ttggtttcag	acaagtatcc	catgtctgtc	tagagtttgg	ctgtggataa	20460
ttgatgatac	tatcttttca	aattatttat	aattcgtgaa	agcttatagt	tcttttaaca	20520
tccatttatt	cttctgtttc	tttttatcat	tcgtaatggc	tttcaattat	tatttttaaaa	20580
atcgagatgg	gagcttgcta	tgttgcccag	gctggctctca	aactcctggg	ctcaagtgag	20640
cctcccacct	cagctttcca	aagtgtctggc	aatgtaggct	tgagccactg	tgcttggcca	20700
attctttatc	tcattaagga	tcataaacat	ttattttaaa	ccaatttcaa	gattttttatt	20760
aagcattgaa	ttcatctttt	gatattgatg	aatttcttga	ctatcttcct	tagttcagtt	20820
attttttatt	tttatttatt	ttttttgagg	tggggtcttg	ctctgtcact	caggctggag	20880
tgcagtggcg	agatctcggc	tactgcaac	cttcacctcc	aaggttcaag	tgattctcct	20940
gccctcagcc	tcctgagtag	ctgggactac	aggcgcatgc	cactaccccc	ggccaatctt	21000
tgtattttta	gtagagacag	tgtttcacca	tgttggccag	gatggctctcg	atctcttgac	21060
ctcgtgatcc	gcccgccttg	gcctcccaaa	gtgctgggat	aataggcgtg	agccaccacg	21120
cctggcccat	tagttcactt	tttaaataca	ctttaggatt	ttagtttatg	gtttatatgc	21180
tgagtgggaa	ataatttttt	tccctttatt	ttgggtgttct	tttctgtatg	tctccctgcc	21240
acctatacct	ctgtttttgt	tgccctcata	catttacacc	atgctttcag	tctagatcta	21300
ggattcta	tctgagatat	tattgcaatg	ttggtgatat	gcattactta	ggttttgttt	21360
gtgtgtgtgt	gtgtatgaga	catatatata	ttattattat	gtatatatta	cctttttattt	21420
atthagagta	cctttttattt	cctctacaac	tgctgtggc	agtttgaaat	aataacttta	21480
gctattgata	ataccttttt	tcaccttcct	ttcatgagtt	ttttgtttgg	tttctaccta	21540
tgagattttt	tcgttttacc	tgtgagcctt	gcttttgggt	ttcttatctt	gtgcatgatt	21600
tcatttcctg	actgcctttg	cttgtttctt	gtcctggagc	tcagttgggt	tcatggagtt	21660
attaatttat	tgctttatat	ttccctctg	tcatgggtcca	caaatatatt	tgtcatgttt	21720
gagcgtaact	gtgtcttttg	aagttaatac	aaaattcgta	ttttatctgt	cattattata	21780

tttggagcaa	tgggataagg	tgggtgtgat	tgatagcagc	atctctctgt	tatcctttca	21840
ggaagtctcc	atgttctttt	gatctcacia	catggcttgt	ttatataggc	ctgcagatag	21900
tagatactaa	agcatctggt	tatttactta	cttatctgct	tacttgcttt	atttacttac	21960
caccacccct	gactaatttt	tttgtatttt	gtagagacag	tgtcctgcc	cattgcccag	22020
gctggctctg	aacttctggc	aagtgaccct	ctactgtagc	ctcccaaagt	attgggatta	22080
taggcatgag	ccactgctcc	tggccctaaa	acatttatta	catgaacgtg	gggtatcttg	22140
gagaagccag	accagttttc	aggctctcag	ccccaacctt	aatctaatat	agtggctctc	22200
aacgtgtggt	gcgtggactc	ccggtagtct	ctgagaacct	tttaagggtt	ctacatgggt	22260
aagactattc	tcataataat	gctaattgtg	tatttgctat	tttcatcccg	ttggtgtttg	22320
caccgatggg	ggaaatgcgg	tgatgcataa	aattgctgac	accttaccat	gaattaaggc	22380
agtggcgcca	gactccgctc	ctaggtagac	attgcattct	tcactgccag	gagctcataa	22440
agaaaaaaaa	aatcagttt	tccactgagg	attgtccatg	atgaagcagc	aacactacac	22500
ctggccctca	ttcccttttt	tccttaagta	cctttcactg	tacccttaag	tactgtcggt	22560
ttaatgttct	gtgtgatgag	aatggaaaa	gtgcacaaag	acttctgcct	gccaaagtat	22620
gatggctgtc	tccgggaaaa	gcacttgccg	agtttgcggt	gtgaactgaa	gtaccacctt	22680
ttttcatgga	acaccatttt	tacttggatg	agtgcacaa	catggctatt	gagtcttggt	22740
tatttggaga	ctgtcttcaa	attgagtgag	gtgaacctgt	cactacaggg	aaaacatctg	22800
actgtattgg	ttgacagtga	taaaatttga	gcttcaagt	aaattataag	taagtaaact	22860
tgaatcggcc	accatgagca	taacagcctt	ttattacttt	cctgatgaga	tgggtgggtga	22920
cattaatgaa	tgtgggttaa	aaaaattgtg	taatgaaatg	taccagcatt	tgaaagatct	22980
actttaactc	agtgaaccag	tattatctaa	atgacccggg	gtttgattat	acagtgatgc	23040
atgggttaaa	gatctgttca	gagtgcgaag	tagatccaat	gcattttaat	gagacagcat	23100
gaaaattcat	ttatatgggt	tcagattcca	ctttgcaact	gtaggagact	agaatatacc	23160
accctaaaat	atgcctgttt	ggtgtaagga	ttattttgag	aagcagacac	aggagaagtt	23220
ctgaaaacag	agtagaaggt	acccttttgt	aagggaatat	ttatatctat	aaaggaaatc	23280
tcccttgtaa	gggtgtcttc	ctcattacca	ggaaaaggat	gactcaatca	ctagaaactt	23340
actaatggag	aaggcataga	cttaaactctg	tataacaagc	cttactgttg	tttaccatgc	23400
ttttcttggt	cacctctcca	taactattgc	tcctagccc	ctgtgccctt	ctttatttgt	23460
ttcagctgaa	gatgatattt	aagtctgaat	tctaagccac	ctcttagaaa	tgaaaagatt	23520

tactcatttc	tctgggtatc	tctcatggat	acatgagata	tatttattat	atttctgatt	23580
ttctcttggt	aatttgtctt	ttgttaaggg	gtctgaccca	acttagaact	cagatagggg	23640
agaggaaaaa	ttattttttt	ctctcctata	aaactcacct	ttaagaaatt	accagttggt	23700
ttagtgtaat	atcaagaaat	atccataatt	atttataaaa	gtttattaaa	atagtccttc	23760
cttttacaag	tacatgtctt	tgtgaggcca	gatttttctt	atctccttaa	atcaagataa	23820
cattgcaccg	gattgaatgc	agaagtaa	aactgttttc	tattaagtca	ggtaattata	23880
tgcaaatata	tgttttta	tattttataa	ttctcattgt	ttcagaagtt	ttgttttttg	23940
caaaaattgt	tatttatggt	aatatatgat	gggctttaaa	aagtgaatga	gggccaggta	24000
tagtggctca	tgctgtaat	cccagcactt	taggaggcca	ggcaggata	tcacctgagg	24060
tcaggagttt	gagactagcc	tggccaacat	ggtgaaaccc	tgtctctact	aaaaatacaa	24120
aaattagccg	ggcatggtg	cgggcacctg	taatcccaac	tacttgggag	gctggggcag	24180
gagaatcgct	cgaactgggg	aggtggaggt	tgcaagtgt	caagattg	gcattgcact	24240
ccagcccagc	ctgggtgaca	agagcaaac	tccatctcaa	aaaacaaaac	aaaacaaata	24300
aacaaaaaaa	gtgaatgagt	ccggcttggt	ggctcatgcc	tgtaattcca	acactttgtg	24360
aggccgaggt	gggagaattg	cttgagccta	ggagttggag	accagcctgg	gaaacatagc	24420
aagacctggt	ctgtactaaa	aattaaaaaa	atcagctggg	catggtggca	catgcgtgtg	24480
gttccagcta	ctcgggaggc	tgaggtggga	ggatcacttc	agaccagcag	atcgaggcta	24540
cagtgcgcg	tgatcacacc	attgcactcc	agcctgggtg	acagagctga	gaccctgtct	24600
ccaaaaaaaa	aaaaaaaaaa	aaggtgaatg	tttcttaagt	tttaatttct	aatatggtga	24660
atactgacat	aaccacata	gcagaagtta	ttacaggttt	ccagttttta	agaggtaaag	24720
gaatcctgag	atcaaaaggc	ttgaaatcta	gtgaatttgg	ttggaactct	agaagcattt	24780
gacttaaacc	tttcaccttg	ttgtatttgg	tatctttag	cacaccagc	tctgtctaca	24840
gctgcctcta	ttctgtgctg	cttaaatacg	gaggaggtct	gagctaacca	atctgaagtt	24900
tggccaattt	caggggcatt	tagttgttaa	cctgaatcta	cttcttttat	tagtaagaaa	24960
catatctact	atagagattt	aggactttga	acagctgtat	aacattatag	gatatgtctg	25020
gtactcagtt	gtttctgttt	ctgaatcaca	aatcggccat	taattttaaa	taaagacggt	25080
ttgtagcata	taatacaatt	tctgatgata	tacttactag	tttgtaatt	cctcacaccg	25140
agtcatacgc	tccttgaagg	caaaaaaatt	cctgttttga	tcaacaattc	atctacccca	25200

agcacttagc	ataggggata	ctatttcctt	tttctatgtg	gatgacaccc	gatatgttga	25260
acagtgacca	ctcttaagat	acttggtgaa	gtaggttttg	gttttaacca	gtttagggtg	25320
atggatgatt	ttacagaagt	tcgtaataaa	attttcttgc	ctcagatatt	ctctaataat	25380
aatgagggtgc	ccccagcttc	atttactaga	catggatagg	cagggtttgt	gaagtacaga	25440
aaaaaagttc	tttaaagtta	tggatcatgt	cacgagggtca	ggagtttgag	accatcctgg	25500
ccaacatggt	gaaaccccat	ctctactaaa	atacaaaaaa	attagctggt	tgtggtggtg	25560
cacacctgta	gtcccagcta	ctcaggaggc	cgaggcaggg	gaattccttg	aactcgggag	25620
gcagagattg	tggtgagccg	agattgcacc	actgcactcc	agcccgggtg	acagggcgag	25680
actccgtctc	aaaaaaaaaa	aaaaagttaa	ggatcatgaa	actaacattt	gaatagcaac	25740
aaagaaaaaa	ccaagctatg	ttgtatttta	ttttttat	ttatttttta	atgttgtatt	25800
ttaaattgaa	tgatgtactt	ctcctcctct	ttgcagtatt	ttatat	ttttt	25860
catttcttcc	ctgaagcaat	cttgacctaa	tggataaaat	gtttagctcc	acataagacg	25920
gtagctat	tttgagagag	aatggagagg	gtcaagggtt	ttattgagtt	ttcagttctg	25980
atacctttta	acctttttac	cagtgtctacc	ccaccctcca	gaaagcaa	aatgttgaaa	26040
gcttttttta	ttttttaact	ttttgatata	tattttctta	ttcattat	gtattgttgt	26100
catcagatga	ataatggctt	tagagattta	tttgaaaaga	caaattctat	tatcagacac	26160
ataacttcta	gggatatgga	aactattatt	attgttactg	ttttgagacg	ggatcttgct	26220
ctgtccccc	ggccagagtg	cggatgatcat	ggttcaactgc	agacttgacc	tcctgggctc	26280
aagtgatcct	cttacctgag	cttcctaaat	agctgggacc	acaggcacat	gctgccatgc	26340
ccagctaatt	tttgtgtttt	ttgcagagac	agaatctcac	tatgttgccc	aggctggtct	26400
caaactgctg	ggctcaagca	atcctcttgc	cccagcctcc	caaagcgttg	ggattacagg	26460
tgtgagctac	tgaaaactggc	ccggaaacat	ttttaaaaaa	ggattctttt	gaatttaaaag	26520
ttattttaatg	attactgaag	agtaataagc	tgtgagggtca	ggaaaaaaag	gactgagcca	26580
cagactaagc	agcagtacag	atgatgacct	attcaggaag	tcttgtgagt	cagacttgcc	26640
gtgtcgtggt	gctagagtta	cagatctgct	ccaacctctt	tgctttataa	gaaggacatc	26700
tctctgttct	accttcaata	tcttttcttt	gaaaaatcaa	cccaaaagtc	ttttattagc	26760
tttacattta	tttctacagt	cttaattttt	gtaacatcag	tgttgcaggt	gaacaaactc	26820
attgtagcct	ctatttttga	tattgctgga	cagggtctaac	tttagtacta	tagtggaag	26880
tttgttattt	tgtttttttac	tctacaggca	ctctgggtta	ggaatattta	tctgtcttgc	26940

atttgaccat	ggttaccatt	ccccctcttc	attgtttact	tagtgtacca	tggtacactt	27000
tatgtaccat	ccttgctgct	ctcagctgtt	tggttaccag	gtggctaata	ttgtcatctc	27060
ttaagcttta	acatttactt	ctcaataactg	tcttttcttc	tgtgaggtag	atggaaagaa	27120
tagattagaa	gagaatgggg	catatgctgt	gatcatctct	cctttacatc	tttattgctt	27180
attaatttaa	tttatatcag	atttcatttc	tgctctgtgc	acatacccac	tgtccctcct	27240
caccactctt	ctttatccag	ttcttttctca	cttaccttag	catggctaaa	acccttggtt	27300
tttatattatc	tctttcttcc	tctgctgttt	ttattttcat	tatatgccac	agggacaaac	27360
ttaggtataa	gtactacttt	tgatgtagag	atacttatgt	ctgtcaaagg	aaaattaaac	27420
tacaaacccc	agaggtaaaa	aatgggtacac	aatactgggg	tttaaaaaat	ctcctcctcg	27480
gccgggctca	tgctgtaat	cccaggactt	tgggaggctg	gggtaggttg	gtcacctgag	27540
gtcaggagtt	cgagaccagc	ctggccaaca	tggcgaaacc	ccgactctac	taataatata	27600
gaaatgaggt	gggtatggtg	gcagctgcct	gtaatcccg	ctacttgga	ggctgaggca	27660
ggagaatcgc	ttgaatctgg	gaggcggaag	ttttagtaag	ccgagattgc	gccactgcac	27720
tccagcctgg	gtgacagagc	gagactccat	ctcaaaaaca	aaacaaaaca	aaataaaaaa	27780
gccccactcc	ttctgcccct	ccagaccagg	gtctcactcc	cttcaccag	gctggagtgc	27840
agtggcgcg	accttagctc	actgtaacct	ctgcctcctg	ggctcagggtg	atacccccac	27900
ctcagcctcc	cgagtagctg	cgactacagg	tgtgcgtcac	cacgcttggc	taagtgtttt	27960
gtattttttg	tagagacggc	gttttgccac	tttgcccagg	ctggtcttga	agtcgggggt	28020
tcaagctgtc	ctctcatctt	ggcctcccaa	agtgttgaga	ttacaagtgt	gagccaccac	28080
accagccaa	attatttctt	tttacctctg	taaaaggaga	accttctctg	tattttaaga	28140
agatgtggag	ttggtcaaaa	gtacagctga	tgggaaagca	aaggagaact	ggagtttgaa	28200
aagagaagag	gaatggtggt	agttaaaaaa	aaaatttgta	aaaaatagag	ttacatacaa	28260
gtttacacaa	tggttttagag	cttacaaggt	aggaagcaga	gacagaaata	gtgtaatatg	28320
taaaatgtta	tagtaaaaaat	atggaaaatg	cttaggataa	agaagggaaa	acttttgtct	28380
aattgggaga	gtcgggggatg	gttttaccag	aggtgacaaa	ttaatcttga	agggcaggaa	28440
tattctagat	ggaaaagcga	tgtgggaaag	attaaaaaaa	aattagtgac	ttaagggttaa	28500
aaataaagga	aatgtttcag	ttacctttat	taaaaacttt	tagtataaag	atcattttgg	28560
ggttgctggt	ggtgattgat	gaggaagaag	tatgactggt	aacaggttgt	ttaaactgaa	28620

gccaaattca	ggtttatgaa	gctcagactt	aagtctgttc	ttatatatga	gatagattca	28680
gtgtattaaa	ttgtagaagt	caatgtaacc	tttaaaacaa	aagagttacc	cggctagtta	28740
gtatgctgtc	aggagagggg	aacttgattt	ggatatggat	ggaattggct	cccttaactc	28800
cctctgtaca	gtgtattatc	tgtgaacttc	aactctgttg	ctcatgtaga	ggttgagaag	28860
tctcttggca	gcaagtttcc	agttgcaact	aacacctgag	ttggctaatt	ggtatgcccc	28920
gttctagcac	tctagtctct	ggggagttaa	tgtttaaatt	caacttcatc	aggtttaaac	28980
tggaacataa	atgtgcaaga	aggaagagag	aatggaacct	tgcgcataaa	ataatttaca	29040
ttcagatgct	tttctgttca	atttatatat	taaaaatagg	atgttttact	ttattgtttc	29100
ttgctagccc	ttcactcaat	atgctggcat	tataaagcaa	agatagtgga	gaagaaatta	29160
ccaagaactg	aagttgtact	gttttcttgt	atacatctcc	accaaggtag	tttcttgtag	29220
ataccatgtg	tatgttttgt	ttctaaaaac	tgtaggctcc	tagctttgct	attcattgtg	29280
ttcaaacgat	tccttctttt	tttttttttt	taacacttac	caaatttaat	tgtttttctg	29340
ttttcctgtt	ctgctagcct	gagagtctta	gtaattggta	gtgacattta	tcctgttttt	29400
ctggggctaa	aatgattctg	ggcatgcaaa	acgtttgagc	tgaaatggaa	ttaaattgaa	29460
aaaaaaaaaa	aggattgtgt	tatactttat	cctacaaaac	ataatagcaa	attatcagcc	29520
acaaaacaaa	aggatataaa	aaatttccct	ctctgacaga	ggatgaggaa	gcaaaagaaa	29580
aataaataag	taggccaggc	gcggcggctc	acgcctgtaa	tcccagcact	ttgggaggct	29640
gaggccggtg	gatcatgagg	tcaggagttc	aagaccagcc	tttccaagat	ggtgaaaccc	29700
cgtctctact	aaaaatataa	aaattagctg	ggcgtggtgg	tgggtgcctg	taatcccagc	29760
tactcgggag	gctgaggcag	gagaatcgct	tgaacctggg	aggcggagggt	tgcactgaga	29820
ttgcgctact	gcactctagc	ctgggcgaca	gagcaagact	ctgtcttaaa	aaaaaaaaaa	29880
aattaaaaaa	aattttcttt	tctttcccct	cctacttatc	tcctcacagc	tottaacttc	29940
cttaccagca	ttgaaagaaa	caaaggtagg	aggagatact	aactggaaga	gtcatccact	30000
tgaggaggaa	gcttttataa	cagttccacg	ttataaaagc	tcttccctgc	cttcccctgt	30060
cctttacaca	cgttatattt	gtcttcagtc	ctttctccgt	ggtaccagtt	ctcttggagc	30120
tcctcttatt	ttattagtaa	gggtatgaat	gacggattga	aagaaagaag	attaagaaac	30180
tttttgatat	ttttagggtg	gagaaaaaaa	ccttgtaaga	ttaagccctt	gtgttaacta	30240
gtagtgggta	ttttctaagt	tgtctgatta	ggaatttgag	aatttggaat	ttcagttttg	30300
ggtagaactt	ttatgtatga	ctgtctcatt	cttcccaaga	acttgttttt	tctgattgac	30360

ttgagcagtc tctgcttttg catagtgcctt gaagcagttt ttaataaacc agttcagatc	30420
catagctctt tgaaaaaatt tccataagtt actgtgattc tcaagaaata caccaaacct	30480
ctctctaatt agtgtattta atcatacctt gtataagtta gggaaacaag cctgacagat	30540
aaactaaatt gctgctggga tagtcaagtg gctccaccat ttaatgatag caaaccaaag	30600
aataacaata cttgactgac cattttaagg tatagtttgt atatgtcgat ctcaaatttt	30660
ccttttgctg tgtgagccat tgaccatctc aagtgggaagt aagggttatg ggtaatatta	30720
gaccaccacg aagggcagtt tagtgacatc ggtgggtaat ggtaggtaa ggtacttgag	30780
gggagcatta gtatctgctg agcttgagca actccttgcc tctgtcccta atactgcatg	30840
cccctaaact atggctgtca taacctctca gtgttcttac tgataagctg agaaattttc	30900
tggctaactg gttggctata gtgtgattca gtagtacaaa tggcttgttt tgggtggtgt	30960
ggggaataaa atgccaaga aacatttgat acatattttg ttggttatga agtctgaaaa	31020
aatattgtag ttccagctct gccatccaga atctgtgtgt gctctagtgg aaagttagcc	31080
atttccttat ctgtaaaatg ggactattat agtaatacat actctggagg gtcattgtaa	31140
ataaattaca gtatatatga gatgtctagt attgtactac cacaaaatta tctccttatt	31200
tctcccttat taatttagga aaagtaaaat attttagttg gtttctatgt caatttagat	31260
ttactggata acccatctgc tattttggca cactatagct ttttttaggt ccctcaaaat	31320
aacttcctgc ttgcctaatag aacctggta gtgttgattg atatcttttc cttttggaca	31380
gggcgtagtt cctgtatcct tgtccattta gctaatttgc tgtgtataat caaacttttt	31440
ccctcctgtc ttaatcccaa ataaccaaaa ggaaagctga ttagtgctgc taagccatat	31500
acaaaaattt tcatggtttt tgagctagca ggtataattc tttgctgctt ttcagcttta	31560
attagttagt tattccatga aagttcattt tctaacaatt tattatatat tctgttgatg	31620
tctaagcttc aacatgttcc atagcttgaa tgttacgtat agaaaggcct atagtattta	31680
taggaaacat tctatccagt tgttgtaaga tacttgttca ttttaaactt tatcatggat	31740
atactttgga cttttccata taatatagaa atagcgtagg attttgatag cattgaaagg	31800
tattctcatt gttactattc tacattaaag taattgtgac gagacgtggg ggctcacgcc	31860
tgtaattcca gctctttggg aggctgaggc ggggtgatca cttgagggtca ggtgtttgag	31920
accagcctga ccaatatggt gaaaccccat ctctactaaa aatagaaaaa ctaggccagg	31980
gtggtggcag gcgcctgtag tcccagctac tcaggaggct gaggcaggag aattgcttga	32040

atctgggagg tggaggttgc agtgagccga gattgcacca ctgcactcca cccgcccccc	32100
gccccaccc cccgccccgc caaaaaaaag taattgcatg gaatatattg cttaaattgca	32160
ggtttttttt tttggacgga gtttcattct tgttgcccag gctggagtag aatggcacaa	32220
tcccggctca ctgcaacctc cacctcctgg gttcaagcaa tcctcctgcc tcagtcccc	32280
aagtagctgg gattacaggc atgtgtcacc acgcccggct aattttgtac ttttagtaga	32340
gatggggttt caccatgttg gtcaggctgg tctcgaactc ctgacctcag gtgatccgcc	32400
cacctcggcc tcccaaagtg ctaggattac aggcgtgagc caccocgccc agccttttaa	32460
aaatgcagtc ttaaagtgtg cattgccata ttttaatacat ttaagtagtg tagcatacaa	32520
cttttttttag tggaacatt ttagataagg aaaataattg taaaaatggc tcatggatct	32580
ggatgataga gtttatattg aaagattgac ttggtttttag cctttgaatt ctgataaaat	32640
gagaagttct tccttcaggt tcttttctgt actttggtgc caggggcttg aaaaggcttc	32700
tgagactgga ttgtgtatct tcttggaagt gcattagagg tgcagtggaa acttcaaaat	32760
atggatgcat ctcacaattg gatgtatgat gtaacttcag gaggacagat tacttggtag	32820
caagtatagg tcctaatttc ttttctattc aactataagt gataatatct aattgtaggg	32880
agtcagaatt aagaaggac tctatgttaa tagactgttc ttttttttct tttttagacg	32940
gagtctcact ctgtcatcca ggctggagtg cagtggcgcg gtcttggtc actggcaact	33000
tctgcctctc gggtttaagc ttttctcctg cctcagcttc ctgagtagct gggactacat	33060
gtgcatgcca ccatgccag ctaatttttg tatttttagt agagataggg tttcaccatg	33120
ttggccaggc tggctcttgaa ctctgacct caggatgatcc accgcctcg gcctcccaa	33180
gtgctgggat tacaggcgtg agccaccgcg cctggcctag actgttctta caatcaaact	33240
tagtgtgaga ctgttgtgct atattatttg ccctttgaag atggctttta tcaactacat	33300
atattctcca aactagatgg gttgtaattt aagatgtaaa aatgtaagct agtctcaggt	33360
agttactgtt ccatgtttct taccggttaa gaacttcag gtcttggtac ctgccttatt	33420
cccctctctc atcttcattc ttgactgttg actgaaagtg atctagatct atttgtgtctg	33480
tgctaggcat ttacctttta tatcttaatc taccaaaata gcataatcctc ccagtgagaa	33540
ggagataaca ggcgtggcaa ctaaaacaaa tgccattttt gatTTTTTgt ttatagctaa	33600
gattaatacc aatagaaaa ctgtacctga agggtagtc atagtcattt gtgctcagga	33660
attattgtat atattgaaat tattattttg gggaccagaa atgctTTTTT atttctcatg	33720
ttgaacattt tctttagttt aatgaaattc aggagatgtt tgctctactt tgctTTTTgt	33780

tataaaacaa	tttgtcattt	actcttagac	attgtggtat	cttatacagt	tgtacagtaa	33840
atgtacctaa	gttttgtcca	tgtctaatta	agaactacaa	atctgtccaa	cctgttccta	33900
aaaaaccaa	gatagagact	ggacatggtg	gctcatgcct	gtgattgcag	cgctttggga	33960
ggctgacgtg	ggcagatcag	ttgaggtcag	gagttcgaga	ccagcctggc	catcatggtg	34020
aaaccctgtc	tctattgaaa	atacaaaaat	tagccaggcg	tgggtggcaca	cacctataat	34080
ctcagctact	cgggaggctg	agacgagaat	catttgaacc	cgggaggcgg	aggttgcagt	34140
gaactgagat	catgccactg	cactccagcc	tgggtgacag	agtgagactc	ttgtctcaaa	34200
agcaaaacaa	aacaaaaaat	aagatagaaa	tattttatat	cttaaacaat	tataccttta	34260
tgttcgggta	aacacctttt	tcatgatttt	aagttattat	tttcccttag	tttttttttt	34320
tttttttttt	ttatagacag	aattcactct	tgctgcctag	gctggagtgc	caatggccca	34380
atcttggtct	actgcaacct	ccatctccca	ggttcaagca	attctcctgt	ctcagcctcc	34440
tgagtagctg	gaattacaga	catgcaccac	cacgtttggc	taattttgta	tttttagtag	34500
agatggagt	tctccatgtt	ggtcaggctg	gtctcgaaact	cccgaacctca	ggtgattcgc	34560
ccatcttggc	ctcccaaagt	gctgggatta	catgcatgag	gcaccacacc	cggccttccc	34620
ttagtacctt	tttgataaat	taggttggac	tctgaaggag	taagtttggg	agcaggaaga	34680
ttgcacaggc	ttatgtgtac	agtgtagctt	gttttgtgag	atcaagagaa	aaagctgcat	34740
gtgtctatgg	acatagctcg	acatatattag	gtttcattat	atgcacataa	acattggctt	34800
aacacaaatg	atctgcattt	ctggtttaaa	ctgatatttg	tgcttattaa	tttttttgca	34860
tattaagaga	ttgtcatgac	ttagtttttc	tattgattta	atttatgctg	tcagaattta	34920
ttgtaacact	atatcaactg	tagaagtaaa	catttaaaaa	gtttaatgca	gtaggattgc	34980
attgaatgat	tgttatagat	cagaataaaag	gaaattttcta	aactatgatt	tagtaggttg	35040
aatgttgctt	ttatatattat	tcaatatatta	ttcaagacat	atattgacca	cctattacat	35100
ggtaggcccc	ttactcctta	ctgagtattc	aacttatatt	taataacaaa	ggaaataata	35160
ttgagaatat	aggcaaaatt	ttatctttca	aattaaagaa	gtgctgttat	ccatggaata	35220
gtttctccat	ttgtttcagg	gattcagctt	ataaacaata	gccaaagtaa	ggaaataata	35280
tctagaatgt	ggaataaatt	acatatattaa	aataaagaaa	tgtaggctgg	gtgtgggtggg	35340
tcatgcctgt	aatcccagca	ctttggggagg	ctgaggcagg	cggataactt	gaaccagga	35400
gttcaagacc	agcctgggca	acatagttag	accctgtctc	tcaaaaaaat	acaaaaatta	35460

gctgggtgtg gtggtgctca cctgttgtcc cagctacttg ggatactgag gcaggaggat	35520
tgcttgagcc tgggaagccg aggttacagt gagctgagat tgtgccactg cacttcagcc	35580
tgggtgacac agtaagaccc tgtctttaaa aaaaaaaaaa aaaaaaagtt attactcaat	35640
ggatagtttg ccattcaatt taaaaatcac ctttgaatga aacaaatata aaaccaatta	35700
tagagacata acaagaatta ttctatTTTT gtacttaagg aatggaatca ctattctttt	35760
tatttttatt ttttgagatg gagtcacact ctgttaccga ggccctggagt gcagtggcgg	35820
gatctcagct cactgcaacc tccgccttcc gggttcatgc gattctcctg cctcagcctc	35880
ccaagtagct gggactacag gcgcctgcca ccacgcccag ctaatttttg tatttttagt	35940
agagacaggg tttcaccata ttggccaggc tgggtctgat ctctgacct tgtgattcac	36000
ccgcctcggc ctcccaaagt ggtgggatta caggcgtgag ccaactgcacc tggctcttta	36060
attattcaat ttattattat tattgttttt aagagacaga gtctcactcg gtcacccagt	36120
ctggagtgca ttggcgtgat cataactcac tgcagcctca aactcctcaa acaagcagtc	36180
ttcctgtttt attcctaagt agttaatgct atagggtgtgc accatgatgc ctggcttatt	36240
tttaaaaaaa ttttgtagag acagggtgtt actgtgttgc acagattggc ctcaaactca	36300
agtgcctcaa actcaaactg cctgagcctc ccaaagcact gggattactt gagctactct	36360
ttttaaatat gaaaattgga aaatcaaaac cgaacatacc tttaagtta aaactctttt	36420
atttgaggat aattttaaac ttaaagcaag gttgcaagaa aatagtacaa agagttttta	36480
cgtttatctc cccccgggt caggattcac ctagtgtcaa ctcccttcct catccttgct	36540
ctgcctgtcc ccattcccag gtttattcac tcaactatta tatatgcaat ttttcttaac	36600
catctgagga taatttgcat atgtaatagc ctgttaccoc aaatattata ctaagaatat	36660
tgggtcttta aataaccgtc gttcatttat caacttaagt gtattaatat tgacaacata	36720
cttttatgtc tattgtccat attctaattt tgtcagttga tccaataata ttctttatag	36780
cattttctta cctctagca caggattcag tctaggatca aatattgcat ttagttgtca	36840
ttttcttata gcttccttta aaatctggac tgtttacaga ctttctttgt cttttgtgac	36900
attgacacgt ttgaaaatac aatacccctg agattgtgtg atctgactgt gccactacta	36960
ataatagtga gccactacta ataaaggtta ttttaagtct ttttctgtcc ttcatTTaaa	37020
cttgtcatgg ggaaaaaaca aataacttaa tcatctcagc tttttagcct ttccatttta	37080
caaccaaagt tatagaatga attttcttgg taatttaata catatttagt gcatctgtaa	37140
agacaatggt gcaatctaga ttttctgatt tatattatga tcatgtgatt ttttaaattt	37200

ttatTTTTTT	tgTTTTTTTT	ctTTTgattt	TTTTTTTaaa	gctacacatt	tgaagtttga	37260
tcagcatctt	gagtgaattt	tttcattttt	ataaatctgt	cttccttcct	ggtagcattc	37320
tgccacctag	tggaaattta	tgtcctccag	catacgtctc	agagttagt	tggaatgcaa	37380
gatgcatttt	aatatataaa	aattagttta	gaatcgttga	acttctttgg	ttgacatgta	37440
attctttaca	acagtgatcg	tcttgTTTTa	aacaagagtt	tagtacagat	aaaattctta	37500
gcaaatagag	gcttagtaga	tgtcttaaat	catctttctc	aacaagaagt	actctacatt	37560
tatcttcttc	atcaatgaaa	ttttaaccaa	agcatactat	ttttccatca	gtcaaatttt	37620
TTTTTTTTTT	tttgagacgg	agtctagctc	ttgtcaccca	ggctggagt	cagtggtgcc	37680
atctcggctc	actgcaacgt	ctacccctcg	gttcaagtga	ttctcctgcc	tcagcctccc	37740
aaataactag	gattacaggc	acctgccacc	atggctggct	aattttttat	ttttagtaga	37800
gacggggttt	cacatgttg	gccagacggg	atttcaccat	gttggtcagg	ctggtctcaa	37860
actcctgacc	tcaggtgatc	cacctgcctc	gacctcccaa	agtgtctggg	ctacaggcat	37920
gagctaccgc	accctgcaag	atacacattt	ttagtaggac	ttgaggaaca	tttctgtctt	37980
ggagtacata	cgttctgcat	aattcatatt	agaatatgaa	atctgagggt	gtcttcagta	38040
tagtcattta	tgaaaaagaa	tattgagaat	tatctgttta	gagaaagtag	ttctgaatta	38100
aaagttgcag	tcattcagtc	atataacacc	ttcatagagt	catgtatatt	ttttaatgta	38160
cttatcttat	ttctcattat	tctctcttag	ttgtgatgt	atattcaaga	tgagtggatt	38220
aggagaaaac	ttggatccac	tggccagtga	ttcacgaaaa	cgcaaattgc	catgtgatac	38280
tccaggacaa	gggtaggtga	cttatTTcct	ggTgctttac	cacacttggt	gtgcctttgt	38340
ttaaggataa	catttttaact	tcttgccatt	tacattctct	ggttagattt	tttggtgggt	38400
tcacttcgtg	gtaagtagag	tgttactgat	gagatggaca	tctttttgat	gtaatagaag	38460
TTTTTTTTTT	attgctgatt	catatagaag	gtagaatatt	aacaattcgc	ggtactataa	38520
gaatttctga	atggaaggag	gggtaggagt	tacgaataga	tgaccaaggt	tatgtcacgt	38580
gcgtccgtgt	gaagagacca	ccagactttg	tgtgagcaac	aaggctgttt	atttcacctg	38640
ggtacaggca	ggctgagtc	aaaaagagag	tcagcaaagg	gtgggtgggat	tatcattagt	38700
tcttataggt	tttgggatag	gcagtgagtt	aggagcaatg	ttttgcgggc	gggggtagat	38760
ctcacaaagt	acattctcaa	gggtagggag	aattacaaag	aaccttctta	aggggtggggg	38820
agattacaaa	gtacattgat	caagttaggg	tggggcagaa	acatcacaat	ggtggaatgt	38880

catcagttaa	ggctattttc	acttcttttg	tggatcttca	gttgcttcag	accatctgga	38940
tgtatatgtg	caggcttggg	ctcagaggcc	tgacagttat	aagtaagaat	ctttgctatc	39000
ttttaagaat	gggttataag	ttgatatttt	gtcatttggt	aggttgcatc	ctttttttta	39060
ccaagtgaag	tgagaagctt	aaaaattaga	aacaaaataa	tgtaatctat	ataacactac	39120
tctatagctt	ttaaagtatt	tgccaaagtc	agtgtcaatt	gaagtttaat	gtgctagttg	39180
aaaaatatca	atctacaatg	aataaaactt	catcattaat	aagtagctac	cactgttttt	39240
gttcttattt	gttagttggt	ttattatctc	taagaagtaa	agatgattta	ttcgtatttt	39300
ctagatgaag	taactgaggc	taactctgcc	caaggccacc	tagctaacaa	agatggaact	39360
gaatttaggt	ttacatgaat	ctctattatg	ttgtactact	tctccaagac	agcatttttg	39420
atagtttata	ttggctgagt	ttagtttggt	tacatatgaa	aataataggc	cgggtgtggg	39480
ggctcatgcc	tgtaatccca	gcactctggg	aggccagggt	gggtggatta	cctgagggtca	39540
ggagttcaag	accagcctga	ccaacatggg	gaaacatcgt	ctcaactaaa	aatgcaaaaa	39600
taagccaggc	gtggtggcgc	atgcctgtaa	tcccagctac	tggggagggt	gagtcaggag	39660
aattgcctga	atcctggagg	tggaggttgc	attgagccaa	agtcgcaccg	ttgtactcca	39720
gcctgggcaa	caagagcgaa	aactctgtct	cgaggaaaaa	aaaaaaaaag	taatcatgta	39780
atagtgttgt	ataggggctg	attctgctaa	cagctctttt	gtgatataata	tattatgtct	39840
cctttcccc	ctttctacgc	cttttcctt	agtcttacct	gcagtgggtga	aaaacggaga	39900
cgggagcagg	aaagtaaata	tattgaagaa	ttggctgagc	tgatatctgc	caatcttagt	39960
gatattgaca	atttcaatgt	caaaccagat	aaatgtgcga	ttttaaaagga	aacagtaaga	40020
cagatacgtc	aaataaaaga	gcaaggtaat	aaaaacactc	atgtcttttt	gaacagtggg	40080
ggttcccaac	ctttttggca	ccagggactg	gttttggtga	agccagtttt	tccatggacc	40140
tggtagaggg	gatggtttca	ggatgattca	agcacattac	gtttgtggtg	cattttattt	40200
ctattatggg	tacattgtaa	catataatga	aataattata	caactcacca	taatatagaa	40260
atcagtagga	gccctgagct	tgttttcctg	cagctagatg	gatccatctg	ggggtaatgg	40320
gagaaaactgt	gacagatcat	taggcattag	agaatcataa	ggagcacaca	acctagattc	40380
ctcgcatgtg	gagttcacat	taagatttgc	acacctgtga	gaatctaata	ctacttctga	40440
gctgacagga	tgtagaactc	aggtggtaat	gtgagtgatg	gggaggggct	gttgtaataa	40500
cagatgaaac	tttgctcact	tgcccactgc	tgacctcctg	ctgtgcagcc	ccatttcctaa	40560
caggccacag	actgatactt	gtctgtggtc	tgggggttgg	ggacccctgt	tttagaagga	40620

acttgttgct atatttgcct ttttgctcct ttgtttgggt agagactaca actgatggag	40680
gctagcaagt atgggaatag acaaagtgtg tgaccagctg tgctttttgt tatttatgta	40740
tttatatttatt ttgagatggg gtctcgcttt gtctctcggg ctggagtgca gtgggtgat	40800
ctcagctcac cacaacctcc acctcttggg ttcaagagat tctcctgcct cagcctcccg	40860
agtagctagg attacaggca cctgccacca cgcccagcta agttttgtat ttttagtaga	40920
gatggggttt tgccatgttg gccaggctgg tctcaaactc ctgacctcag gtgatccacc	40980
cgctcagcc tcccagagtg ctgggattac aggtgtgagc caccgcgctg ggctccagc	41040
ttatgctctt tagagacggt taacagacaa ttgcctgtta tttggtagtt ccttttcagg	41100
aagctgtggg atagtacatt tagtagtgaa atgatttagg tatcttcttg cttcctgggc	41160
aactatgaag tttagttttg atgttataat attgtagcat cattctctta tgaggaaatg	41220
ttttgtatgt atgtatgggc atgtgcatgt gtatctttat gtctcttctg gggactattc	41280
gaaggtgatt taatctataa ctgatagtgt gttattcggt ataccacctt ctgtcttttc	41340
aggaaaaact atttccaatg atgatgatgt tcaaaaagcc gatgtatctt ctacagggca	41400
gggagttatt gataaagact ccttaggacc gcttttactt caggcaagta taaagatttt	41460
aactgtccag taggctgtat tgccctttgg tttattataa agttataaaa aatcgatgaa	41520
attttggtta ggaaatgaga acaaaaagaa aacatttttt tctttgagac agttcagtat	41580
tctgaatatg atggtaaaat gctcttataa ttacaatata cataattcag gaagccttgc	41640
ccccctagta aaaatatagt tgcaaactga ggaaccacac atatacaaac ataaaaatat	41700
aagcaagcag gaaaggaaaag gtagcctgta atttcacaga gatatttggg taaaaatggc	41760
ccttcatatc catgggtttt gcaccacaga tttggaggct gaggaagaaa taaaaataa	41820
tgtaaaaaca ataaaaaaca cctcagtgtg atgactatat agcacttaca ttgtattagg	41880
tattataact aatctagaga tgatttaaag tatattggaa tatatgcata ggctataggc	41940
aaatacacca ttttatattg gagacttgag catcctcaga ttttgctatc tttgggaggt	42000
cttgaacca accttacaca gatactgggg tatgatgact gtacgtttcg gctcagacat	42060
ttttggtgaa tttttgcgtg attgatcaca tggcacgcta tggttttata ttcttgagga	42120
attgttaaga cttaaacaatg tgctttgtat ttgtttaggg gctgaagccc ttcataaagt	42180
taacttgtca acttcttttt gtttcaggta gtttgttcca actactttta gttgatcagt	42240
tttgaaattc ctctttgtaa attctcatta aggaatagta gagcagtttc tgtagcttga	42300

cttggcatca	aatggaaaaa	tgggaagagc	taaggatgct	tttctcattt	ttaaaagctc	42360
ctttaaagat	ataattcttt	aaaaattagg	ttagacatta	attcagattt	catgctgaac	42420
atatttatgt	acacactccc	ccacccccaa	ttattcttct	ttttttttcc	ccccagtaag	42480
gcctgtagta	atgggtgctaa	tgtagtagt	aatgggtggct	tatagttggt	tgcagtaatt	42540
aagtcagcag	tagtttttac	acattctact	tactactgtg	gttgctgttt	gctgatacta	42600
ccataacaaa	ataccacaga	cttggtaggt	gaaaccaa	aaatttat	cttacagtgt	42660
tggtggctgg	aagtccagga	tcaagggtgc	agcaggattg	gcttctcctt	ggcttgtcac	42720
tgtgttctcc	catggccttt	ttctctgcgt	gcacattcct	ggtgtctttc	tctcccctta	42780
taggatacca	gtcatattgg	attaggggtcc	ccaccgttat	gacctcattt	atctttaatt	42840
acctccttga	aggtcttgtt	tccaaataca	gttactactga	tggttagagt	ttcaatttaa	42900
gaattagagg	gaggaggata	caattcagtc	cataacagcc	tgtattaaca	tatcctattt	42960
taggcattgg	atggtttctt	atttgtggtg	aatcgagacg	gaaacattgt	atttgtatca	43020
gaaaatgtca	cacaatacct	gcaatataag	caagaggacc	tggttaacac	aagtgtttac	43080
aatatcttac	atgaagaaga	cagaaaggat	tttcttaaga	atttaccaaa	atctacaggt	43140
aggcttttaa	tgtgtatttt	ctaaataggt	taaatttttt	tccttgacca	tttcttagaa	43200
aattgaatgt	atcttttagg	aagtcaagcg	atcaaagag	ggtagaaagg	catgtgattt	43260
aatagcagaa	ttttcacata	tgtagtcagt	gaattaaaaa	tttgggtatac	attttaagag	43320
gcatatagtt	acaaaatatg	cagtgcagatt	tctgttaaag	ttgaaattat	tcacatgttt	43380
tgtatatgtc	cagcctgaaa	tgtagtata	gatataacta	tggaacacat	gcataatgag	43440
aaaatgcagc	ttgaattctt	gatgatggtc	atagaatgag	ttaccagctt	tttaaaatgt	43500
catttcaatt	tgttttccaa	agttaatgga	gtttcctgga	caaagagac	ccaaagacaa	43560
aaaagccata	catttaattg	ccgtatgttg	atgaaaacac	cacatgatat	tctggaagac	43620
ataaacgcc	gtcctgaaat	gcgccagaga	tatgaaacaa	tgcagtgcct	tgccctgtct	43680
cagccacgag	ctatgatgga	ggaaggggaa	ggtaagagct	attatatgtt	tgtgatgttc	43740
atgaaacaaa	tagtggccat	acttgaggtt	ttgaaacttg	tggtgtaacc	cttcttactg	43800
aattccatgt	ctttgcttgc	ctattgaaca	tatatatcca	aaagttaagt	ataatcctta	43860
ccagggtgaa	ttttttattg	tagatttgca	atcttgtatg	atctgtgtgg	cacgccgcac	43920
tactacagga	gaaagaacat	ttccatcaaa	ccctgagagc	tttattacca	gacatgatct	43980
ttcaggtaaa	aactcttttt	ttgtctctct	ctctctctgt	gtatacgtac	atttttat	44040

tggaattttt	tgtaaatggt	actattttta	atctgtacta	tcatagaaat	gtatacctac	44100
tgtaatgagt	gctttatgtg	tatctttttt	catgttgctt	atgcaacctt	aaaagaattt	44160
cactaaaatt	cttggcattt	gaattgggta	tgtttggcat	tttaaatccc	ccagataaat	44220
taaaaaaaaa	atthaggggc	acctggtttt	ctctccaaat	tgcattttgc	gtcagaattt	44280
agtatttctt	taacttcaag	cccatttgtc	ataaagaaac	atgtttttaa	aaattataag	44340
taatttaatg	agaattattg	ggagtaattc	cttttttttt	ttttttttgt	tgagacggag	44400
totttgctctg	ttgcccaggc	tgagtgcaa	tggtgcgac	tcggctcact	gcaacctcca	44460
cttcttgggt	tcaagtgatt	ttcctgccat	ggcctcccaa	acagtttgga	ctacaggcac	44520
gtgccaccat	gcccggctaa	tttttgtatt	tttagtagag	atgggggttc	accatgttgt	44580
ccaggctggt	ctcgaactct	tgacctcaag	tgagtcgcct	gcctcagcct	cccaaaatgc	44640
tgggattaca	gttgtgagcc	actgtgcttg	gccgggagta	attcttgacg	tcaacctgag	44700
tttcaatctt	ggtctgccat	tttttaatca	tagaaataaa	aaattaaaga	catcgtgggt	44760
gataagatgc	attaatgaaa	ttaaactactg	tggcaatatt	atttttattt	accttcaggg	44820
ttactcttat	ggtcacctaa	gtgtaaatgg	ggatgccaag	ggtttgtcat	atatgccccca	44880
tctcagagat	aaagaaacag	aagcttggtg	acagagattg	ggttattgtc	caagatcatg	44940
gctaataaga	aaatttatag	ctgagtctgc	ctgacttagc	ctgtattctt	tgctttgtgt	45000
aacactaatt	ttacaatgtg	gacttttaac	aagtgatata	aaaatggagt	aggtatacat	45060
aaaacatagc	tatcactatt	acatatgtat	gtgtgtgttt	gtaatatgta	tatataatat	45120
acataatgca	gaatattttt	aaagaaatat	tgctattttt	gcagtcattc	aatcatttta	45180
tgccatcagt	aacctatctt	caggattttt	gagattaatt	ttcacaatta	aaagtagcaa	45240
aggattattt	tgacaattca	cagtataatc	ttgtttacgc	tgatggatgt	tacttttttt	45300
tttttttgag	acggagtttt	gctctgtcgt	gcccaggctg	gagtgcaatg	gcatgatctc	45360
agctcactgc	aacctctgcc	tcctgggttc	aagtgattct	cctgcctcag	cctcccaggt	45420
agctgaaatt	acaggcgccc	atcaccacgc	ctggctaatt	ttttacattt	ttagtagaga	45480
cagggtttca	caatgttggg	caggctgggc	tcaaagtcct	gacctcaggt	aatccgcctg	45540
cctcggcctc	ccaaagtgtt	gggattacag	gcatgagcca	ccatgcccgg	ctgtatgtta	45600
ctttatattt	gaacattttc	tctgtattaa	ctcccctcag	ataaacatag	tgacagcaat	45660
tgttatatat	tattttatcc	tttttagagt	agtcctttct	tgcacctctt	atgatttggc	45720

agtgttaatt	ttctacttga	atagccatgt	tttacatttg	ctactgaaga	tactaaataa	45780
aatatcttta	agcaatttag	caagtagcat	ctttgaaaat	tatctcatca	gtatataaaa	45840
gtgatacatg	tttattataa	aagttagaaa	ttaccaagca	tgaaagaaaa	caggacatga	45900
tggagaaaaa	aattgccaag	caagaaagat	caaatgcttt	gtgtgattaa	catcatttaa	45960
aactgagatc	ctacttactt	ttgacctctg	gggatatttt	atcttctgtc	cctgatgtgt	46020
ttcatttaat	aaacttttta	tggacatctg	ttttgtattt	gtcatgtggc	ccagggctaa	46080
actcaggaga	ggtggttgag	gacaaatcat	gtctattttg	ggcacgagtg	cacaggtatt	46140
tactctttcc	cagaatgcgt	ttatcccttt	tccctagtct	ccccctgcta	ctaataagat	46200
ttttggtcac	cattaaaaatt	ctgaatttta	aacagattat	tggactgggtg	gtttatttct	46260
gtcagcttat	tcaatattag	tgccttttta	atctccagta	gcttttgtag	aattaccttt	46320
cactatgaag	ccccatgagt	tttcccaaac	caaacttggg	tttcttcagt	atgttttcta	46380
atgaatatgt	catagaaagg	ataaatatat	gggcaagact	tttttttttt	tttttttttt	46440
ttgagacgga	gtctcgctct	gttgcccagg	ctggagtgca	gtggcgagat	ctcggctcac	46500
tgcaacctct	gcctcccggg	ttcaaaccat	tctcctgcct	cagcctcccg	agttgctggg	46560
actacaggta	tgtgccacca	cactcagcta	attttttgta	tttttagtag	agatgggggt	46620
tcaccatgtt	agccaggatg	gtctcgaact	cctgacctca	tgatccaccc	acctcggcct	46680
cccaaagtgt	tgggattaca	ggcacgagcc	accgcgcctg	gcctgggcaa	gccttttcaa	46740
tgtctttcct	aatttgtctg	gagtcagttt	attgccact	tctttcaagt	tatttgtctg	46800
taccttttgg	gtcacaactt	ccatcatcat	tgggatttgg	catatctgtt	ggtgctgagc	46860
ataagagatt	gccaagtct	gattattgca	tttcttagta	aaacctatac	aaaacagata	46920
actattggca	atcttgacat	cagcaggagc	ttcctatgaa	gtctgccatg	tttaacctatg	46980
gagcatattt	tgtcacagaa	aagattactg	aggatgtcca	ggtcaaaaac	tgtgtgacca	47040
gttattatgg	cttgatcat	tctgtctgca	ttcaaagaca	tagaaaaggc	ctgaaagctg	47100
atccaagacc	agccatggaa	gctggtcaca	tagtttttga	cctggatgtc	ctcagtaatt	47160
agtctgaatt	ttctaagggc	agtttcatca	ttatgcagat	cagcaagggt	catttcaaaa	47220
acacagttct	tgaggccatc	agatgcagtt	ttggttcctt	gagccctttt	gactagtttg	47280
ttaccaatta	aacacagctg	gtgctttcac	atcatatcag	tcttttttag	gaaatggatt	47340
aaccactttc	ttctttgctc	ccattctgcc	actttttgta	aggcacttgc	ttttgccaac	47400
caccctagtg	ctgcttagag	tgaaaaggcc	tagacagttt	ttaaggacca	tctattgtca	47460

tgaaaccttc	tttaatttca	tagtattttt	gagtatgtat	atttggtgtc	tccattgtat	47520
ttgatattaa	gcaaaagttg	tcagaagctt	ccagcattgt	agaaatgagt	atttggttaa	47580
ccctccaagt	ttaggtatta	agtgtacaaa	aatgtgatca	tctctcagat	gcaaataatt	47640
gtccctgctg	gcttacttta	agtaggtatt	ttctcttgct	tatagttgta	gggacagaat	47700
ctcttcggac	aaacaacttt	cctcataggc	gttatttttt	ccctttacac	gaaaatgaac	47760
ttaaggttat	ctggacatgt	atattcagta	cattcagaca	gtaaaaggag	tttgtgtgat	47820
atatattctg	tacagcattt	gggaaaacac	tgtttttcta	cactgccaca	ccacttctga	47880
ccccagatgt	atTTTTTct	acactaacca	gcgctctgtc	tgacataagc	tgggtgccct	47940
acaattttag	tttggacagt	ttctacctgg	gttttagcatt	agatcttaca	aggttaaggg	48000
ttcagtccca	caagactgcc	tgtactttac	ttcagatgcc	agttgcaagt	cctggccttc	48060
tgtacttctg	actgactggc	tataaattgg	gcttctgatc	ctctccttag	gtttgatgat	48120
ttgctagaat	ggctcaagaa	atccggaaat	gctttactca	ggtttactgg	tttcttatga	48180
aggggtacaac	tcaggaatat	ctcaatggga	gaaatgtata	ggagaaggta	ttaggggggtg	48240
gggatgaggt	ttggaggttc	catgccctct	ctgggcttat	agccttccca	gcaccttaat	48300
gtactcatcc	tttgggaagct	catcaaattct	cttgttcaag	aggttttttt	tttttttttt	48360
ttaattggag	atggagtcct	gctctgttgc	ctaggctgga	gtgcagtggc	acgatctcag	48420
ctcactgtaa	cctctgcctc	ccgggttcaa	gcaattctcc	tgctcagcc	tcccaagtag	48480
ctgggattac	aggtacgcac	caccacgccc	agctaagttt	tgtattctta	atagagatgg	48540
ggtttcacca	tgttgaccag	gctgggtctcg	aactcttgac	cttgtgatct	gcttgccttg	48600
gcctcccaaa	gtgctgggat	tacagatgtg	agccactggt	gctggcccga	gttttttttt	48660
tttgagatgg	agtctcattc	tattgccagg	ccggagtgcg	gtggcatgat	ctcggctcac	48720
tgcaacctcc	gcctgccagg	ttccagcgat	tctcctgcct	cacctcccg	agtagctggg	48780
actacaggcg	cacctccca	tgcccagcta	atTTTTgtat	ttttactaga	gatgggggttt	48840
caccatgttg	gccaggatgg	tcttgatata	ttgacctcgt	gatctgcctg	ccttggcctc	48900
ccaaagtgtt	gggattacag	gcgtgaggca	ccgtgctagg	ccaagagttt	tttatagaat	48960
ttaatcacca	ggctctcctt	cctccctcat	gccccattcc	tggaggttag	tagatggaac	49020
tactaacaga	aagttccaat	cctttaatta	cttggctctt	ctgattatca	gctccatcct	49080
gaggtgatct	agagacccca	ccctaagtct	cctcatcagc	ataaattgag	gtgtgttcca	49140

aaggggctct	ttatgaataa	cttgaaaata	cttttattac	tcaggaaatt	ctgaggattt	49200
tggatagggg	ctctgtgcta	gaaatctgac	aaagaccaa	tgtattatta	tactccttag	49260
cagaacatgt	agggagaatc	ctgtggtgct	atgtcttaag	gagaaaagct	gtggatatag	49320
tagaaatttg	gatcagagaa	ggtggagcaa	agatttaata	tcttttattt	tattctccag	49380
tgctaagcca	tgtgtaggca	gccagtaa	acttgtgggc	tggatataag	tctttttttc	49440
ctttttttgt	ttaataggaa	aggttgtcaa	tatagataca	aattcactga	gatcctccat	49500
gaggcctggc	tttgaagata	taatccgaag	gtgtattcag	agatttttta	gtctaaatga	49560
tgggcagtca	tgggtcccaga	aacgtcacta	tcaagaaggt	aaagaatttt	ggggttgatt	49620
gttcttatca	ttttattctt	tagagacagg	gccttgctat	cttggccagg	ctggactcga	49680
actcctggat	ttaattgacc	cttctgcctc	agcttctgag	tagccaagac	tgcaggtgca	49740
caccaccata	cctggttttg	tggttgattc	ttgatcttgt	ttgtcattat	gtttggtata	49800
cacatgactg	tagttgctct	cttgttggtg	aggggtagga	aatgatgcc	tgagtgttct	49860
tattttaccc	tgttgatgat	tttggtgca	atccagtctt	tccttggatt	tttagaaatg	49920
tacttgaagt	atatttcctc	cctgtcccct	cctatatata	tttgttttgc	tgactgtagt	49980
taccagtgat	gggatatttt	ccccaacagc	ttatcttaat	ggccatgcag	aaaccccagt	50040
atatcgattc	tcgttggctg	atggaactat	agtgactgca	cagacaaaaa	gcaaactctt	50100
ccgaaatcct	gtaacaaatg	atcgacatgg	ctttgtctca	accacttcc	ttcagaggta	50160
atgatagatt	actgtgtatt	ctaatacaaa	atgcagcagt	gttctcaaaa	tgctttatta	50220
ttaaagtaaa	aagggaaggg	ataaaatgag	acaaaattta	ggaaggttat	tgggtttgat	50280
gaaatgagtt	tagattcctg	gattatgata	tgtttaaggt	tgtattttta	tgtgaaagtg	50340
attatttatt	aaatacttta	caggaaagct	aggtgatggg	aaggctaattg	ggtggataaa	50400
agagcacata	aaatctgatt	acatgtctta	ccactcattt	ctgataatgt	gtgttgcttt	50460
ggggactgca	tttaaaattt	gagggtaaac	ttcaagaata	aaggtagtta	ctgtctgggt	50520
tggtagtggc	aaataagaaa	tgcatgaagg	ggaggatatt	caccatttaa	ttatcttgag	50580
taatttgcag	gtacccccag	gtgaagccct	agataatgtg	gcaactctaa	taaagcccac	50640
ctgaaactcc	agttaacata	gctgttggtc	tttcataata	ctacagtggg	ctcactcata	50700
gattctgtgg	cttactgaaa	aatatgttac	taggtaaaata	attgatcaat	atgtagattg	50760
gaactgtcac	taggtattgg	aatgctgcct	aaaaagttaa	gttcctgggt	agttaattca	50820
tcccattttt	ttattccctc	tccttctctc	tcccttcttc	ctttcttctt	cttctcttct	50880

tctttttttt	tttttttttt	tttaaacaga	gacagagtct	tgatctgtca	cccaggcagg	50940
tgtgcagtag	tgccatcaca	gctcactgca	acctcgaact	cctggggtca	ggcgatcctc	51000
ccaccgcagc	ctcctgaata	gctaggacta	gagatgtgtg	tcactatgcc	tggccaattt	51060
ttaaattttt	tgtagagaca	tgatcttgct	gtgttgccca	ggttggtttc	aaactcctga	51120
gctcaagtga	tcctcctgcc	tcagcttccc	aaagtgtctg	gaatataggt	gttagccact	51180
gtagctggct	ggttttttta	aattttattt	tattttaaat	ctgattaaaa	gctttcatgc	51240
atgcttagaa	tttttttagta	aaagtttgat	gtttgttttg	cagagaacag	aatggatata	51300
gaccaaacc	aaatcctggt	ggacaaggg	ttagaccacc	tatggctgga	tgcaacagtt	51360
cggtaggcgg	catgagtatg	tcgccaaacc	aaggcttaca	gatgccgagc	agcagggcct	51420
atggcttggc	agaccctagc	accacagggc	agatgagtgg	agctaggtat	gggggttcca	51480
gtaacatagc	ttcattgacc	cctggggccag	gcatgcaatc	accatcttcc	taccagaaca	51540
acaactatgg	gctcaacatg	agtagcccc	cacatgggag	tcctgggtctt	gccccaaacc	51600
agcagaatat	catgatttct	cctcgtaatc	gtgggagtcc	aaagatagcc	tcacatcagt	51660
tttctcctgt	tgcagggtatt	tgtgttgaca	tttcctttta	ttttttttct	ttttaagtaa	51720
ttattctttc	catactacta	taattcttgt	aaagttaatc	tattttataa	tagaaacttt	51780
gaagaattaa	gttgtatttt	gttacagtgt	ctggtagtct	aattcttttc	ctaaattttt	51840
tttcaaattc	aggtgtgcac	tctcccatgg	catcttctgg	caatactggg	aaccacagct	51900
tttcagcag	ctctctcagt	gccctgcaag	ccatcagtga	aggtgtgggg	acttcccttt	51960
tatctactct	gtcatcacca	ggccccaaat	tggataactc	tccaatatg	aatattaccc	52020
aaccaagtaa	agtaagcaat	caggattcca	agagtcctct	gggcttttat	tgcgaccaa	52080
atccagtgga	gagttcaatg	tgtcagtcaa	atagcagaga	tcacctcagt	gacaaagaaa	52140
gtaaggagag	cagtgttgag	ggggcagaga	atcaaagggg	tcctttggaa	agcaaaggtc	52200
ataaaaaatt	actgcagtta	cttacctggt	cttctgatga	ccgggggtcat	tcctccttga	52260
ccaactcccc	cctagattca	agttgtaaag	aatcttctgt	tagtgtcacc	agccccctctg	52320
gagtctcctc	ctctacatct	ggaggagtat	cctctacatc	caatatgcat	gggtcactgt	52380
tacaagagaa	gcaccggatt	ttgcacaagt	tgctgcagaa	tgggaattca	ccagctgagg	52440
tagccaagat	tactgcagaa	gccactggga	aagacaccag	cagtataact	tcttgtgggg	52500
acggaaatgt	tgtcaagcag	gagcagctaa	gtcctaagaa	gaaggagaat	aatgcacttc	52560

ttagatacct gctggacagg gatgatccta gtgatgcact ctctaaagaa ctacagcccc	52620
aagtggaagg agtggataat aaaatgagtc agtgcaccag ctccaccatt cctagctcaa	52680
gtcaagagaa agaccctaaa attaagacag agacaagtga agaggtaatt tgttttctgt	52740
atatttcagc tcatatttca tcatttttctg gtgttagata atgtgatata aaaattcttc	52800
catttttaggt ttattttaaag aaagttaaatt ctttagctct catttcttta taattatttt	52860
ggatgtcagt aaaattatga tgtaatttag aaataacaga tgtgtatgtt ttaagatgtg	52920
actataactc tttagtagcc aatatgaaat tttttcatgg aggtgtttat tgctggaatg	52980
ggcagattgg gtcattaaga gaatggtaga agtaatcagg aaaaaaaaaa cttgtattaa	53040
gcagcataat ttttatttta aggtaaaatc aagtttcatg cacaagatga cattctgtat	53100
aagcatttcc caaacttata ggatatatta atatgcactt gagaaaaatga aaggcttaaa	53160
gttaggatgt gggcttaacc tactgttcac caaatttatt gaccgaagcc ctttttagag	53220
catgcctatg aacatcccag cttgctcctt ttattattaa tcacacttat tttcagaagg	53280
tttgtgtaga tgcagatatc tgtagctaa ttatcaatgc actgctagt actgttacct	53340
gcaaaatatt ctacagtttg agaattaaat gtcttgtgta aatttaaaaa atgccccttt	53400
gaaaggacca aatgtagtga tttaatctca gaggaggaag attagagatg ggggtcataa	53460
taaactggcc tttcaggtgg gtattatcat tgtaggtagt ttttgtattt tacttgcttc	53520
tatttcatgt atcatttttt ctgatgggta tgtttatacc tgttgtgtctg gtaatgtata	53580
cagggttaatt tttaaaactt tattttcagg gatctggaga cttggataat ctagatgcta	53640
ttcttggtga tctgactagt tctgactttt acaataattc catatcctca aatggtagtc	53700
atctggggac taagcaacag gtgtttcaag gaactaattc tctgggtaag aatgaactag	53760
gttttttttt tttttgctgc ctttgaaact tttctgcata cctgtaaaca ctcttact	53820
aagaccagga tataaatagc atttataact tcagaacata tattctgcct ctgttttcta	53880
tactaattta tatgtgcttt agaaagcttt ttgaacattt tcctgttttt taaaaattaa	53940
ataaatttcc cacttctaac taatatgcca gtaatcatgg cacttataga aaaatattca	54000
tgtttgatta ttccaggtga gtactgtagg tactagggca tatatttttc ttagccacag	54060
agaactggat taaaaagcaa ctgagactct agattaaaac ctgtccattg gtgttttaac	54120
agaatcttgt catttaatta agatagtttt ctttggtgtt tgctggttct tatctagccc	54180
ctctcctgtt gctgtgtgtt gacttcatca atttaacaaa ggtaggccgg gcatgggtggc	54240
tcacacctgt ggtcccagct actcgggagg ctaaggcatg agaatcgctt gaacctggga	54300

ggCGaaggTt gCagtgagcc aagattgcgc cactgcactc cagcctgggt gacagagtga 54360
 gactccgtct caaacaaca gacagaaaaa caaagatata ttgtgtgtgt caattgaaaa 54420
 ggCagcatgc acaattattc agaatggTca ttattcagta gcattatttc ctaaactaga 54480
 atggatagat caattaagag tgggggggaa aaaaagaagg ttagaagggg attttacatt 54540
 ttattttctt tcgatcagaa ggcaacttat ctggttaagt tgattgttaa aattataaac 54600
 agtatactta agtacaata tgcaagaacc ttcaggagct tggaacattt gtgaattttt 54660
 caatattaag tgaagcgCag agtatcagt accatatcag gctacagaaa agttctcagt 54720
 acttcagccg acatggagat tgttgtttct actttatttg gaatatgaga cccttttttg 54780
 gctggcaggg gggcgggggg tggcggtggT gggTgagggc cacttccctc acttattttg 54840
 taaaggaaga cagtgtttgt ttttgtaaga aagacattct tgggtgggga gtggtggtat 54900
 ttgtgttttg tacttgatta tttatatatt aaatcacgaa gaaatgtttt tgtattgtgt 54960
 tttcaacagg ttgaaaagt tcacagtctg tgcagtctat tcgtcctcca tataaccgag 55020
 cagtgtctct ggatagccct gtttctgttg gctcaagtcc tccagtaaaa aatatcagtg 55080
 ctttcccat gttaccaaag caacccatgt tgggtgggaa tccaagaatg atggatagtc 55140
 aggaaaatta tggctcaagt atgggtacgt tatttctaatt tagtatgtat gattattttg 55200
 ggaaaagcat atttaaaata cttaaagcca tctaaataat tgggagtaaa taataacttt 55260
 ttgaataacg ttagtatgtt tcttccatga atatccttca tttattctat gttttggtta 55320
 tgtaaactct tcaagagtct tttggtctat gacattttcc agcctgttga atatatgaga 55380
 atagtggcct atgtctccac agttggccag cccttttctt accatgacaa agtgctgttt 55440
 tgtcaaggTt gatgttgtgt ataatggctg tacttacatg gtataagaag gatttcatta 55500
 taatatggaa aagacctaaG tatggctacc tgttttaggt gggccaaacc gaaatgtgac 55560
 tgtgactcag actccttcct caggagactg gggcttacca aactcaaagg ccggcagaat 55620
 ggaacctatg aattcaaact ccatgggaag accaggagga gattataata cttctttacc 55680
 cagacctgca ctgggtggct ctattccac attgcctctt cggTctaata gcataccagg 55740
 tgCgagacca gtattgcaac agcagcagca gatgcttcaa atgagtaagt gtccaccctc 55800
 ccctcttcat gaaaaaagaa agttagatgt ttcaggataa tttttgctct tatttgagaa 55860
 tttgtgcttt ctttttgctc cccagggcc tggTgaaatc cccatgggaa tgggggctaa 55920
 tccctatggc caagcagcag catctaacca actgggttcc tggcccgatg gcatgttgTc 55980

catggaacaa gtttctcatg gcactcaaaa taggtgggggt gttattttgt gactctgtag 56040
aaaatctcag cattgggtag tttagaaaag agttggagca cagaagcaaa cgtgaaagag 56100
aatgagaatt ccctataatt gaggtactgg gttgccagct gggcatttct cgtgtaactc 56160
tgtgtaaaaa tgaggctgaa gcagtaagca gtgcgtgtgg cattcacagg agagggagga 56220
gatacaacca tgttgtccag ccattagggc cattcagtgg ccaaacctct gagagcctct 56280
ctgtgagatg attgtctctc tagtcccatg aggaggggaa aaaagataag tacatgtttc 56340
tagtggtttt ataaatgttc ttcagagggt tagcctcagt tttccagaaa attaaacttt 56400
tttaaaaaaa cttttctttt cccccaacca cctgctgcct attgagaaaa ttcttttaag 56460
gattggctaa ttgttttcta aaattatttt aaacatttca gtgatgatag tgaaataact 56520
atatagcatc tttaaaattt ttcataaaat aaagattgta ggcccgtgtt ggtggctcac 56580
gcctgtaatc ccagcacttt gggaggccga ggcgggcaga tcacaaggtc aggagatcga 56640
gactatcctg gctaacaagg tgaaaccctt gtctctacta aaaaaaaaaa aaaaaaaaaa 56700
ttagccgggt gtggtggtgt gtgcctgtag tcccagctac tcaggaggct gaggaaggag 56760
aatggcgtga acccggtggt cgagagcttc agtgagctga gattatgcca ctgcacccca 56820
gcctgggcaa cagagtgaga ctccgtctct aaaaaaaaaa aaaattgtag attgtattta 56880
atttttattt agcttagtaa tttacttgca tgcaagaggc catggtcaat gtcagctcta 56940
acaggaattc tacagtaagt taagcaagga aaataaaaaat gaactgatct attgagcaga 57000
cagtgatgta actatatgaa tttatttgag tgcttctcta ctctatatga atttatttga 57060
atgcttctct actcaataga gagcaaatag tttcaagtta acagaacttt tctgaggcag 57120
gataaatgtt taacttcatg cccttgtagt tggtggagaa ctgaggcaac ttgctgtggg 57180
tgtatgggggt ttgtgttaca cttgccaata tgagctctgt gggccaagtg tgacaaaagtc 57240
attttggtat ttctccagac tcacgtcagt gatagctcaa catttctttt tttttttttt 57300
tttttttgag acggaatctg gctctgtcgc ccaggctgga gtgcagtggg gcaatctcgg 57360
ctcaaggatc tcttgggctc aagcaatctg cccacctcta cctcccaaag ttctgggatt 57420
acagggtgtca gccaccacgc ctggctccct tctttttttt tttttttttt tttttttttt 57480
gagacaaaagt cttgctctct ctcccagcct ggagtgcagt ggcgcaatct cggatcactg 57540
caagctccgc ctctggggtt catgccattc ccgcctcagc ctcccgacta gctggggcta 57600
caggcgctca ccaccacgcc tggctgattt tttgtatttt tagtagagac ggggtttcac 57660
cattcacagg atgggtctga tctcctgacc tcgtgatccg cccgcctcgg cctcccaaag 57720

tgctgggatt	acaggcttga	gccactgcg	ctggccatag	ctcaacattt	gtatccttcc	57780
ttttattctt	ttgatttctc	taattttcaa	gtattataat	tattacctcc	ttcactgttt	57840
ttgtgaggag	tatcttctcc	catccttccc	taccctcccc	ctggcccca	tttctgctat	57900
accccaaatg	cctagggttt	ggcaattaca	atttggtggt	gggattgggg	gtttaagctg	57960
tatatgggtg	tctaaagtgg	cctggtgaaa	tttctaaatt	gtgggcctta	aacttaaatt	58020
gatgccattc	actctttttt	accacttgg	ttattatttg	tgttttagc	atttgagtta	58080
ctgttcatta	aaaatactat	gcatgggtgc	tgtgatctat	tactcttaga	aaaaaaaaa	58140
gcaccattga	cattgattgc	aagtcttttt	ctaggcctct	tcttaggaat	tccctggatg	58200
atcttggtgg	gccaccttcc	aacctggaag	gccagagtga	cgaaagagca	ttattggacc	58260
agctgcacac	tcttctcagc	aacacagatg	ccacaggcct	ggaagaaatt	gacagagctt	58320
tgggcattcc	tgaacttgtc	aatcaggtag	gttgcattaa	catggaagta	ggagagtgta	58380
tatttgtgtg	tgtgcgcgcg	tacacattca	tgaagccaca	tacaagaatg	cctgtgtgtg	58440
tctctcctag	tacttgtgtt	atatcactac	attcatggat	accagcatta	aatttgga	58500
atatcctttt	ttggtctcaa	ttcgtatgtt	aaaatagaaa	atatacttac	gattgcgata	58560
ttactttcaa	caaccacta	tttttgcaa	ttgtagaaat	gatttagtta	agctactgta	58620
ctgttcttaa	aaatgtgacc	ttttattcat	gttaacagtt	ctcattttta	taactatctt	58680
tctctactac	ttagccaagc	cgtgtgtatt	ctgaggcaag	cttttttttt	gcttgtttgt	58740
ttaaacaaaa	cttgtttaca	atggccaagc	tgaacatcct	aacatcatgg	tgtcctgttc	58800
ctgtttacat	acccgcctt	atgaaaacat	gccattcaca	aatctgtatt	tctgaaagac	58860
acattctgta	gtgactgttt	tttctttttt	gaatcggagt	ctcgctctgt	caaccaggct	58920
ggagtgcagt	ggcacaattt	catctcactg	caacctccac	ctccagggtt	caagtgattc	58980
tcttgctta	gcctcgcgag	tagctgtgat	tacaggcacc	cgccaccacg	cccgggta	59040
ttcttttgta	tttttagtag	agatgagatt	ttgccatgtt	ggccaggctg	gtctcaaact	59100
tctgacctca	agtgatccac	tcgccttggc	ctcccaaagt	gctgggatta	caggcgtgag	59160
ccaccgtgcc	cagccatgac	tgtttttatt	taaaggctat	ggaggggcca	ctgtataggt	59220
ttgtgcgttc	aacagtaagc	aggaaagatc	atcaggggct	gtcagttgtt	gttggggaaa	59280
tagatgtgta	catatggaag	tacactgcca	tgtggcaa	gctgtcacag	tgcagatggg	59340
aaacgctgag	cagtccttgt	gtacaccttc	agggatacca	gtgacataga	accttggcac	59400

tgaggagcca	tatTTTTatac	tccaacagaa	gtatagaagt	tctTTTTtat	ttctttactt	59460
gttcaggcac	actaaataac	ccatcaattc	cttccttccc	tctgtagtt	ctctctgttt	59520
tactgtgtcc	ttgtgaggca	agtctagaaa	ttaataattg	tcactattcc	cctgtgttgg	59580
actcctagta	tcttgaatct	caaatcgctt	tctgtcttga	tttactcctt	tgttttgctg	59640
caacacaact	tctattaact	tcttcatccc	tactgcatga	aataaaatgt	tttgggttct	59700
atgtgtctga	aaatatcttt	attccaccct	cctacatgtc	tggctatgta	ttacattcta	59760
ggtttaaaat	aattatatac	ttttgaaaga	tttctgccat	agttttctgg	catctagtgt	59820
ggccactgag	ttgtatttct	ttctgatttt	gattcatttg	catgtgaccc	gtttattctc	59880
tttggaatga	tttaggaact	ttttctctcc	gaaattttat	gatgctgtat	cttggtatgg	59940
gtcttttttc	attcattctg	ctgtgtacta	gatacactga	tattcccttt	ggtttagggg	60000
tgttttcttg	tataatttct	ttattaacct	tatctctcct	gtgttttttt	ttctgaccta	60060
cttttctggg	atttctgttg	acatgttggg	cattaaattc	gttctatttt	tttttttttg	60120
agacggagtc	tcgctctgtc	gcccaggctg	gagtgcagtg	gcgtgatctt	ggctcactgc	60180
aagctccacc	tcttgggttc	aagccattct	cctgcctcag	cctcccagat	agctgggact	60240
acaggtgccc	gccaccacac	ctggctaatt	ttttgtattt	ttagtagaga	cgggggttca	60300
ccgtgttagc	gaggatggtc	tcgatcccct	gacctcatga	tccaccacc	tcagcctccc	60360
aaagtgggat	tacaggctgg	gattacaggc	gtgagccacc	gcgcctggcc	cttcattcta	60420
tattttgaag	tcttctctat	ttttcttgtc	tttgatttgc	ttgagtcacg	ttcaagcttg	60480
gaaagtgttg	gacgctttta	tcaagtatct	ggtgatccct	gactgttctt	atatgttaag	60540
agtgagacat	taagaagctg	atttgacact	ttgcaagtgt	gagcagcatc	agttgtcttt	60600
actgagggtg	attaagtggg	gaactagccc	tagccctttt	atttcaggac	tccccaaatt	60660
tttatttatt	tatttttgag	acggagtctc	tccctatcgc	ccaggctgga	gtgcagaagc	60720
gtgatctcgg	ctcactgcaa	cctccacctc	ctgtgttcaa	gcgattctcc	tgcctcaacc	60780
tcttgagtag	ctgggactac	aggcgcacgc	caccacgccc	ggcttttttt	tgtattttta	60840
gtaaagacgg	ggtttcacca	tattggccag	gctgggtctg	aactcctgac	ctcgtgatcc	60900
acctgcctcg	gcctcccaaa	gtgctgagat	tacagggtgtg	agccaccgcg	cctggccagg	60960
actcccaaaa	tttccacatg	tagagttggt	ttcaaccacc	actaccactc	ctgccatctg	61020
gtaatctttt	attacctggg	tgcatttttg	gagctgggct	agggaggcaa	gtgtgggata	61080
ttaaattata	aaatataaaa	ttttatttaa	attataaata	tgctaaatat	aaaatttcct	61140

gttttcagcc	tctgcctcac	tccttttctta	ggctctgctt	ggtgcccctg	aacccctgta	61200
cctttgtcgg	gtaggtagaa	ggtacaggcc	tttcgggagt	cagggagcag	gcagggaggt	61260
agttgacctc	ctgctctata	ctcagactcc	taaccaacct	cctcatttca	gcaccatgct	61320
ctgatccccct	accaccctca	ctggagtctc	aatagatctg	tggaatacat	ttgcttgttt	61380
ttcatatgta	tttttcctct	gtgggcacat	aagtctaagt	ttttctgttc	tgttgagctg	61440
gttcctactt	ctctattcac	tttgtatctt	ctattataaa	tatggaaata	cttgatcttg	61500
ttgcgttatt	agtgttttat	ggataaatac	taccttttaa	gtattttttt	tttaaataaa	61560
ctggatacct	cttagttccc	tttattgtca	ttttagtagg	gttagcaagt	gaatgcaggt	61620
aagcatgcat	gatcagtctg	ccatgtttta	cttaaagtat	agtttgcttt	attaagacat	61680
cttcagccag	gcatgatggt	gtgtgcctgt	agtcacagct	actggggagg	ctgaggtggg	61740
aggatcacat	gaacccaagt	tgatgggaca	aaatagaaac	atagtttcca	gttactatgg	61800
taacagtcca	agaggtgtcc	tgggaagggt	cataagggtg	aaatggaaaag	aaggagggga	61860
tacatgatat	gccctggagg	aaaaattgac	aggacttggt	ggtcacacgt	gtttactctt	61920
ggaaaggggag	aatgtgaaga	atcaaattgc	tgggttttgg	ttcctgggca	gtgaatggtg	61980
atgctgtgta	ccgtcaccat	ttgacatctg	tgagggggtg	gtttcaggac	ccctgtggat	62040
acaaaaatcc	atggatgctc	aagtccctta	tataaaacag	tctagtattt	gcatatagcc	62100
tatgcacatc	ctcccacata	gtttaaatca	gctctacatt	acttataata	cctaatacaa	62160
tgtaaatggt	atgtatatatta	tatagttggt	acactgtatt	gtttagggaa	ttattataag	62220
aagaatgatg	actgtgtgta	ttcagtcagg	tacagctacc	gtttccttcc	cctggaatgt	62280
tttcagtccc	ctgttggttg	aatccatgag	tgtggaacca	tggaatatgga	gggccaactg	62340
tattgtgata	tagtagggta	ggttgaggga	gaacaagcct	gcttgggggg	aagggtctgt	62400
gggaatcatg	gtgtctgttt	tctgcctgtt	aagtttgaga	tacctgagac	atcaggggtgc	62460
ggatgttaag	taggcatttc	cataaacaaa	acaaaagtt	cagagatggt	ttggctggag	62520
acaaaaatgt	gatcattatc	accagcggat	gagagcacct	aagtagaaaa	tatatcaaga	62580
gaaaataaga	gagcctagga	ctgaaccctg	atgaacagtt	agcattcatt	caaggaaaag	62640
ccagagagat	gggagaaaaa	tgagaagtgt	tgcaagtac	agtgggggtga	agtatgcttc	62700
aagagagaca	tgtcaagcat	gctggctgca	tgcttggcat	tcagtgcctg	tggaatgagaa	62760
aataaagggtg	aatgcacagt	acacctgggt	cttgtcttag	cacagcaggt	tgttctcttc	62820

ttcagaatat	caactttttac	ttcttttttct	gtcacctgtg	ggatgttatt	ttgaatgtat	62880
ccttagcatg	tagagaagtg	atgcctggca	cataacaagc	atttacttaa	atacttggtg	62940
aatgactgga	tgtttttttgc	acttttcttta	gagcatttga	cttctgttgc	tttcatagat	63000
gttcttcact	gttctttttat	gtgttggtgt	taagggacag	gcatttagagc	ccaaacagga	63060
tgctttccaa	ggccaagaag	cagcagtaat	gatggatcag	aaggcaggat	tatatggaca	63120
gacataccca	gcacaggggc	ctccaatgca	aggaggcttt	catcttcagg	gacaatcacc	63180
atcttttaac	tctatgatga	atcagatgaa	ccagcaaggc	aattttcctc	tccaaggaat	63240
gcacccacga	gccaacatca	tgagaccccc	gacaaacacc	cccaagcaac	ttagaatgca	63300
gcttcagcag	aggctgcagg	gccagcaggt	aaccagtcac	gtgttcttcc	ctctggcttc	63360
tccttctgtt	gttttcagac	tatgtttctc	agtgttctta	ccactgggtc	aatctatccc	63420
tgtcaactaa	agaaattctt	tttgttttac	ttctgtgtaa	ggttttattt	gtacaaatgg	63480
ctccttgтта	aggagtagtt	ttatgagaat	attctatttt	acaggtaaaa	agtaaaaaaa	63540
tgtcaggaag	gattgctctt	ggggaagaaa	aatgttactt	gatgactttg	tagtcttaaa	63600
ggtagataag	gttttttttg	aaaaaaatcc	ttactgctaa	taaccaaata	cttaaacctt	63660
cttgatttca	gcatttttta	tggaactctt	ctttctagat	gttttataaa	actagagttg	63720
tcttttaata	ttctaaaata	tgacttctgt	ttaccctatt	gttttcttag	tccccaagaa	63780
atgttttaaa	attcaattgt	ttttattggt	tatgtcttca	aaccatataa	gtagatgaat	63840
gcctgaggtt	ttttttttgt	ttgtttgttt	gttttggttt	gttttttttt	ttttgaggtg	63900
gagtcttgct	ctgtcgccca	ggctggagtg	cagtggcatg	atcttggctt	actgcaacct	63960
ccaccttctg	ggttcaggtg	attctcatgc	ctcagcctcc	cgagtagctg	gggagccacg	64020
caagcccggc	tagtttttgt	attttttagta	gagacagggt	ttcaccatgt	tggccaggcc	64080
cgtcttgaac	tcctgacctc	aggtgatcct	cctgccttga	ccttccaaaag	tgctgggatt	64140
acagggtgtga	gccaccgtgt	gcggccaaat	gcctgagttt	ggaatccaaa	gagccagaga	64200
ctccattgca	taaatattgt	taaaagtcag	tttaggtact	cagaaaagct	gtgttactgt	64260
attcatttta	ctttctgccg	tttcttcact	aaaagtcatt	tagggaaaagc	taatggagtt	64320
tattcagaat	tcctctgac	aacttaaaag	tatttcccca	tgtgcccga	taatcccaga	64380
gaaagcctga	ctataaatct	tttgagtctt	tattgtgtgt	gtgtatatat	atataaaatt	64440
tatttattta	ttattatttt	ttctgatata	gggtttcagg	atggaatgca	gtggtgcagt	64500
cacagcccac	tgcagcctcg	acctcccagg	ctcagggtgat	cattccacct	cagcctccca	64560

ggtagctggg	actacaggag	tgtgccacca	ctcttggcta	atTTTTtTgta	gagatggggT	64620
Ttcttcatgt	Tgcccagact	gatctcagac	tcttgggctc	aagtgatctg	cccacctcag	64680
cctctcaaag	Tgctgggatt	acaggtgtga	agatattctt	taagctgcaa	aattgcactt	64740
tactTTTTtt	Tccccagtgc	caaacagtag	cccatcatat	gctagccaaa	gactTTTTcaa	64800
cattgacctt	tttgCagtgt	gaaagtactg	gttcagttta	gacgtgactt	agccaggtta	64860
ttgtgtttgg	agatattacc	tCattggctg	gtgctgaggg	tctggaaagc	Tgttttggca	64920
gactgacgtg	ctctgcttgc	attctaacca	acttgtctca	cctcagtttt	Tgaatcagag	64980
ccgacaggca	cttgaattga	aaatggaaaa	ccctactgct	ggtggtgctg	cggtgatgag	65040
gcctatgatg	cagccccagg	Tgagctccca	ggtgaggatg	ataagcctct	ccacatgcat	65100
Tgctctgtgc	Tcaggacagg	gcttggcctg	Tggttggctc	Tcagtaaatg	tttGttaaac	65160
aaatgaaggT	aattctgaat	Ttcttgtgta	agaaagcagt	cgcattaaag	actttcgact	65220
cttccattct	Tctctctggc	Tggtgactgg	gaggaatcag	aggagggaga	gctttcttca	65280
Ttaaaaccat	cgattagtgt	TTTTTTaatt	ggttcccttt	gtgatcagtt	gctgtactgt	65340
gagaacagct	atcacttggc	Tgtttaggaa	Tttaataaat	ctgtaaatgt	Tcctctgttc	65400
ctggattatg	aaacaacatg	cacactgggt	aaaattctga	aattataaag	aagaaaataa	65460
agaatacata	atcctgttct	cagtgatagc	ctctgagatg	acctgtttct	Tgtagtagga	65520
ggggatatta	aaattccctt	ctacttccag	ccagtgggtg	agacagtatt	gaggggTTTT	65580
Tttaatgtgc	atgaggcaga	Tgaccacaca	gcaatcctct	attgtgatTT	gaaatatcgt	65640
Ttataattgt	TTTTTaaaaa	gcaactgtga	aatgctcgat	TTTTattgtc	Ttatgcctac	65700
Ttggaagtac	Tgatattttac	atTTTcttga	Taataaaaaca	Tcttgtggaa	gctgagctag	65760
aatgtcctac	agaaagatga	Taaaagcttg	ctTTTTggag	atgaccCGta	gctagtagag	65820
ctgaaatcag	cttccttggt	gtacttcagt	Tatgtcacct	Tctgaacctc	cagatagctt	65880
ctgcttgccc	cttacctctt	TctgaaagtT	Taaagaaagt	Tcaagatttt	ctgaggTgga	65940
cccotgctta	Tctgagtata	accccatctt	atTTTTTTtg	gcttcatggt	Tcagccctcc	66000
accaccccaa	cacactgaat	cctcattttc	ctgtaattgt	ctttcatagt	Tcctgaaaaa	66060
tttgtcctca	gattccaccc	ctaaatgttt	Tcttactttg	Tggaatgttt	ctagtcatgt	66120
Taaagcttga	cagtgtgttg	Tcttttgtct	Tttaacccca	aataattttc	aggTccctct	66180
Tcttcagttc	Tccctccctc	cccttgcaat	agccagaaaG	ctTTTTTTTT	TTTTTTTTgA	66240

gagtcactgt	tgcccaggct	ggagtacagt	ggcacgatct	cggtcactg	cagcgtcaat	66300
tccctgggtt	taagggattt	tcctgcctca	gcctcctgag	tagctgggat	tacaggtgct	66360
catcaccaag	gctggctagt	tttggtattt	ttagtagaga	cagggtttca	ccattttggc	66420
caggctggtc	tcgaactcct	gacctcaagt	gatccgcccc	ccttggcctc	ccaaagtgct	66480
gggattacag	gcgtaagcca	ctgcaccagg	tcagaaagct	tttatgtgaa	gaattgtatg	66540
ttttggccgg	cacagtggct	cacacctgta	atttaagcac	ttcgggaggc	cgaggtgggc	66600
ggatcacctg	aggttaggag	tttgagacca	gcctggctaa	catggtgaag	cactatctct	66660
actaaaaata	caaaaattag	ccagagtggg	ggtgcacgcc	tgtaatccca	gctacttggg	66720
aggctgaggc	agaagactca	cttgaacctg	ggagacgaag	gttgctgtga	ggcgagattg	66780
tgccactgcg	ctccagcctg	ggcgacagag	tgagaccctg	ttaaaaaaaa	gaaggccctg	66840
ggtgttttct	gtcttatacc	tggtgtattg	tgggggtact	atatgtatgc	aactggcagg	66900
ttcttgctat	atatatgtaa	ttgcactctt	tcttgggtat	tagcaggggtt	ttcttaatgc	66960
tcaaatggtc	gccaacgca	gcagagagct	gctaagtcac	cacttccgac	aacagagggg	67020
ggctatgatg	atgcagcagc	agcagcagca	gcaacagcag	cagcagcagc	agcagcagca	67080
gcaacagcaa	cagcaacagc	aacagcagca	acagcagcaa	accaggcct	tcagcccacc	67140
tcctaattgtg	actgcttccc	ccagcatgga	tgggcttttg	gcaggaccca	caatgccaca	67200
agctcctccg	caacagtttc	catatcaacc	aaattatggg	aaatctgaca	atgaaaatgt	67260
gccttcccca	agttaacatt	actaaggaca	taagcttcat	tacatttatt	gcacatgaaa	67320
gacaaaaaca	cgattcactc	cctctttact	tcacaaggaa	aaccaaatta	atttaaata	67380
ttggaaaaca	aaaatgctgc	agcacacagg	taattgagac	aggtgtatcc	tgtcatagtt	67440
gaatatTTTT	ttcagtccca	ctcattaaga	gtccccaac	tctggaagaa	acactgcaaa	67500
gttgtccct	tgcccttct	tgtatgttcc	agtatagtag	aactctctaa	tctctgaatg	67560
cttggcaag	tcagtgagag	gaatgcactt	tgtgggcttt	taagttgatt	ttcttggtga	67620
cttggattta	ttattttttt	tttgagatgg	gggtcttgct	ctgtcaccca	ggttgagtg	67680
cagtgggtgcg	atcttggctc	actgcaacct	ctgcctcccg	ggttcaagtg	attctcctgc	67740
ctcagccctg	agtagctggg	actacaggtg	cattccacca	ccccggctg	ttttttttt	67800
taaattttta	atagagacgg	ggtttcaactg	tgtagccag	gatggtctcg	atctcctgac	67860
ctcgtgatct	gcctgcatcg	gcctcccaaa	gtgctgggat	tacaggcgtg	agtcaccgtg	67920
cccgccctg	gatttattat	tacagtgatg	cagatacctc	ttcatttcag	cctttgagag	67980

gttccaggaa	catggtggga	ataaagggtgt	ctattgggga	gccctgtcat	ctgaggatta	68040
taactcccct	gccctttaaa	gaaggatgga	gtgatgtgag	ttgagtgata	cggagtcctt	68100
tttctacagg	aaacccatta	aagcaactga	tctttcagtg	atccagatgg	tgctcctttc	68160
tgtagtaagc	ctgttactct	agtcgtcatc	ttggtgagaa	tctagaatac	ctgggggggc	68220
agcatcttat	agcactctgt	atcttacact	tatcacttcc	ctccaccccc	acctccttta	68280
aaaaaaaaac	aaaattacta	cagaaatctg	atattctaag	gagaaggcat	ttgggcattt	68340
ttattttctt	tgttttat	ttgtaaggaa	tgggacaaca	accagatcca	gcctttggtc	68400
gagtgtctag	tcctcccaat	gcaatgatgt	cgtcaagaat	gggtccctcc	cagaatccca	68460
tgatgcaaca	cccgcaggct	gcatccatct	atcagtcctc	agaaatgaag	ggctggccat	68520
caggaaat	ggccagggaac	aggtaaagaa	cagtgcactta	taaagttagt	cacatcctag	68580
tcccagaagt	ccaagaactt	aatgtat	tcagtcaagc	ctttttggat	ggagagggtt	68640
aaaggactgg	gttcatatta	gaagggtgtga	tttggttgt	ccattttgag	agtccttcaa	68700
gcacgcacat	atctattagg	gtgtctagta	cagaaagctg	tgaaaaatgg	atcacaggct	68760
gtcagggagt	tttctctaac	attcccagct	taagtatagc	aatgtttgac	acaattgtag	68820
taattttctgt	gggcatgccc	tttgctgcta	aagtgacttc	cagaggtaat	attaccattt	68880
gtttacttac	agctcctttt	cccagcagca	gtttgcccac	caggggaatc	ctgcagtgtg	68940
tagtatgggtg	cacatgaatg	gcagcagtg	tcacatggga	cagatgaaca	tgaaccccat	69000
gccatgtct	ggcatgccta	tgggtcctga	tcaggatg	gatcgattcc	ttacctttt	69060
caaaaagt	ttcttgttct	ctggatagaa	ctaaagccta	ggctataatc	agaatgtcct	69120
aggtatattt	taacttgaat	gtataactta	aaatatagta	attgaaaaaa	cttggtttga	69180
aggcattggg	ccattagata	cttttggtaa	gccagagctg	cattgtaaga	tgggatctca	69240
ggaacctgaa	tcactcagcc	agagctgcac	tgtaagccat	gaatgtggac	atgggtattt	69300
ttttgttgtg	caaagcatgt	gttttactca	ttttttttt	ttttttttt	ttcctgggtg	69360
ctgacagaaa	tactgctgac	atctctgcac	caggacctct	taaggaaacc	actgtacaaa	69420
tgacactgca	ctaggattat	tgggaaggaa	tcattgttcc	aggcatccat	cttggaagaa	69480
aggaccagct	ttgagctcca	tcaagggtat	tttaagtgat	gtcatttgag	caggactgga	69540
ttttaagccg	aagggaata	tctacgtgtt	tttccccct	ccttctgctg	tgtatcatgg	69600
tgttcaaaac	agaaatgttt	tttggcattc	cacctcctag	ggatataatt	ctggagacat	69660

ggagtgttac	tgatcataaa	acttttgtgt	cacttttttc	tgccttgcta	gccaaaatct	69720
cttaaataca	cgtaggtggg	ccagagaaca	ttggaagaat	caagagagat	tagaatatct	69780
ggtttctcta	gttgacagtat	tggacaaaaga	gcatagtccc	agccttcagg	tgtagtagtt	69840
ctgtgttgac	cctttgtcca	gtggaattgg	tgattctgaa	ttgtccttta	ctaattggtgt	69900
tgagtgtgctc	tgtccctatt	at ttgccccta	ggctttctcc	taatgaaggt	tttcatttgc	69960
cattcatgtc	ctgtaatact	tcacctccag	gaactgtcat	ggatgtccaa	atggctttgc	70020
agaaaggaaa	tgagatgaca	gtattttaatc	gcagcagtag	caaacttttc	acatgctaata	70080
gtgcagctga	gtgcacttta	tttaaaaaaga	atggataaat	gcaatattct	tgagggtcttg	70140
agggaaatagt	gaaacacatt	cctggttttt	gcctacactt	acgtgttaga	caagaactat	70200
gattttttttt	tttaaagtac	tggtgtcacc	ctttgcctat	atggtagagc	aataatgctt	70260
tttaaaaaata	aacttctgaa	aacccaaggc	caggtactgc	attctgaatc	agaatctcgc	70320
agtgtttctg	tgaatagatt	tttttgtaaa	tatgaccttt	aagatattgt	attatgtaaa	70380
atatgtatat	accttttttt	gtaggtcaca	acaactcatt	tttacagagt	ttgtgaagct	70440
aaatattttaa	cattgttgat	ttcagtaagc	tgtgtggtga	ggctaccagt	ggaagagaca	70500
tcccttgact	tttgtggcct	gggggagggg	tagtgctcca	cagcttttcc	ttccccaccc	70560
cccagcctta	gatgcctcgc	tcttttcaat	ctcttaatct	aatgctttt	taaagagatt	70620
at ttgttttag	atgtaggcat	tttaattttt	taaaaattcc	tctaccagaa	ctaagcactt	70680
tgttaat ttg	gggggaaaaga	atagatatgg	ggaaataaac	ttaaaaaaaaa	atcaggaatt	70740
taaaaaaaaacg	agcaatttga	agagaatctt	ttggatttta	agcagtccga	aataatagca	70800
attcatgggc	tgtgtgtgtg	tgtgtatgtg	tgtgtgtgtg	tgtgtatggt	taattatggt	70860
accttttcat	ccccttttagg	agcgttttca	gatttttggtt	gctaagacct	gaatcccata	70920
ttgagatctc	gagtagaatc	cttgggtgtg	tttctggtgt	ctgctcagct	gtccccctcat	70980
tctactaatg	tgatgctttc	attatgtccc	tgtggattag	aatagtgtca	gttatttctt	71040
aagtaactca	gtaccagaa	cagccagttt	tactgtgatt	cagagccaca	gtctaactga	71100
gcacctttta	aacccctccc	tcttctgccc	cctaccactt	ttctgctggt	gcctctcttt	71160
gacacctgtt	ttagtcagtt	gggaggaagg	gaaaaaatcaa	gtttaattcc	ctttatctgg	71220
gttaattcat	ttggttcaaa	tagttgacgg	aattgggttt	ctgaatgtct	gtgaatttca	71280
gagggtctctg	ctagccttgg	tatcattttc	tagcaataac	tgagagccag	ttaatttttaa	71340
gaatttcaca	catttagcca	atctttctag	atgtctctga	aggtaagatc	atttaatatc	71400

tttgatatgc ttacgagtaa gtgaatcctg attattttcca gacccaccac cagagtggat	71460
cttatttttca aagcagtata gacaattatg agtttgcctt ctttccccta ccaagttcaa	71520
aatatatcta agaaagattg taaatccgaa aacttccatt gtagtggcct gtgcttttca	71580
gatagtatac tctcctgttt ggagacagag gaagaaccag gtcagtctgt ctctttttca	71640
gctcaattgt atctgaccct tctttaagtt atgtgtgtgg ggagaaatag aatggtgctc	71700
ttatctttct tgactttaaa aaaattatta aaaacaaaaa aaaaataaat ttttttgcaa	71760
tcctttcctc agacctggct ccaggctaac tggaaggcag cactcccttt tttatatagt	71820
agaaaaatga agtttattat aagtttttat attttctact tgttcatttg gtgcaaactc	71880
aagatttctt ttaatagggt cagtctttga gataatttgt ttttacctgt attgcccttt	71940
atctttttta ggtaattctt tgtactcctg ctgtctacct ctctcacac ccagcaccc	72000
cccatTTTTT caaaccttgg tatctgttgg gtgaacagta taatcttttc atctgctttt	72060
agaatgtggg atatttccag tacctacttt tttttttttt ttttgctgaa tccaaagata	72120
tataaataaa atatatatat tttataaaga tcagaatgat ataaaggaga tacatgtttc	72180
ttcctttaaa aaataaacgg aagttacatt gttaatgttc atattatgat gccacttttc	72240
taaactgcat ctggattgaa aggtgtaaat atcaataaca gtgctactta gttatcagta	72300
tttaatatct gaggtgagtt gggggtatct atattagggg tagggтата cagaagataa	72360
ttggcttgat gtcctagaag ttctttgatc cagaggtggg tgcagctgaa agtaaacaga	72420
atggattgcc agttacatgt atgcctgccc agttcccttt ttatttgcag aagctgtgag	72480
ttttgttcac aattagggtc ctaggagcaa aacctcaagg attgatttat tgttttcaac	72540
tccaaggcac actgttaata aacgagcagg gtgtttttctc tottcctttc taatatatgg	72600
agtttcgaag aataaaatat gagagcaata tttaaattct caggaattga cttatactct	72660
tgagaatgaa ttcagtttca atcaagtta cattatgttg cttaaaaaaa tagaaattat	72720
tctttatctt gcaaagaatt gaaaccacat gaaatgactt atgggggatg gtgagctgtg	72780
actgctttgc tgaccatttt ggatgtcatt gtaaataaag gtttctattt aaaattggag	72840
cctaaagagt tttttttttt tttttttttt tttaaattccc tgttgggtta agggtaaagg	72900
aggttaagga agcctatttc aaataatggg aacagtttct gagaagttaa aaaacgccac	72960
tagggagttg ctagggagcc ttggcctgtt tggggcattg aaacaaatgt ggggtgctttt	73020
agggattatc tccgtcatct gttaaattgag aaatgggttg gactgggtgat tgatagttga	73080

aatctgtcaa	ctacttgtat	caggtagac	tacctgatac	acaaagaagg	gttggccaag	73140
gcgaatttct	ttgcaattga	ttaatacttt	tttaaaaaat	gaagtaccaa	agctggtata	73200
ctatgagact	tacctgtagt	cccttgaagt	atggtagact	ttttagtcaa	tctacaacca	73260
tctactcccc	ttttaagaaa	atcttctaaa	ccaagggcat	tttcttccaa	aaagatgttg	73320
actggtagta	tcttgaatac	tttaaaaaaa	cagacacacc	aaaaaactcc	caagaaatgg	73380
ccttttacaa	aatgtcaaag	gttcttcata	ccaactgctg	gtcattggct	ggggttttga	73440
acactgtatg	acaatactta	aactacaaaa	ttttttttac	aaatacagtt	tcatcaaaac	73500
ttgggacata	catcaacttc	atttcttttc	agtaccttaa	aaaaaaaaca	tcagttctgg	73560
gacataacaa	agaaatacta	ggagaaatgg	tatctggaca	ggaacagaaa	tgtccacaac	73620
tgcgagggat	tttcttttac	actggccaca	gagcgtttat	tgacaccacc	actcctgaaa	73680
attgggattt	cttattaggt	ttccctaaaa	gttcccatgt	tgattacatg	taaatagtca	73740
catatataca	atgaaggcag	tttcttcaga	ggcaaccagg	gtttatagtg	ctaggtaaata	73800
gtcatctctt	ttgtgctact	gactcattgt	caaacgtctc	tgcaactgtt	tcagcctctc	73860
cacgttgctt	ctgtcctgct	tcttagttcc	ttctttgtga	caaaccaaaa	gaataagagg	73920
atttagaaca	ggactgcttt	ttccctatga	tttaaaaatt	ccaatgactt	tcgcccttgg	73980
gagaaatttc	caaggaaaac	tctctcgctc	gctctctccg	ttttcctttg	tgagcttctg	74040
ggggaggggt	agtggtagct	ttttgatacg	aaaaaatgca	ttttgtgcag	ctggtagagg	74100
ataatccaaa	gcaaaaagcag	gggcaaaaat	ggacttcctg	aagttatctc	tgctcctgct	74160
ggttatcctc	cagaatctgt	catgttgact	gagagtgcgt	gcttgctttc	tcaggcctcc	74220
tggccaatac	cacaggctctg	ctggaaatca	cccacatggg	ttttcattgc	ctgtgcagtc	74280
aggatgatgcc	tctatgtttt	tggaggtcca	cctctgttgt	ttcttaacct	tcccagcctt	74340
cccacagttg	tcccctaaag	aacaaaacaa	actcatctta	gcacttagct	atcatgggtct	74400
ttatcatgac	ttcctaatac	gtcctatagc	tgaggaagct	ttgcttcaag	gctgctgaga	74460
atgaatatatt	ctaggttact	tagaacggga	ttgccaccac	ctagtcacct	caattttttg	74520
tttacttata	cacccaatgc	ctggcaagga	tggcatttaa	ggatctggac	agaatagtgg	74580
ctaaggagat	tgtgatattg	aaagattctg	taccttaatt	ctagaagcac	cgaagaaagg	74640
cttaggtgac	ctgttactaa	tgtcctatta	aagccacaca	ggtttatatg	catataaagg	74700
aagaaatgag	tagaccagag	gttgcaagtg	gcagttcacc	aagggcgata	atttgcccac	74760
atgggttaact	taatgtcaaa	ttagatgata	atgataaaga	attctcacac	atacttgcac	74820

ttttggat	ttt	ggtagacgaa	tgagaaaatc	tggcgaacct	cagcccattc	ctgcagggag	74880	
caaactggcc	tgctcccttt	agaatagagg	tgaactttac	aggttgccag	tctcttagtc		74940	
cctgtcagcc	tccaatggca	ctggagtgag	agtttgtagc	atgggctttt	tggaaacccat		75000	
ttaatgaggc	catcctacta	ctgatgttgt	atatcagtta	gcacttttgt	agccacagcc		75060	
ttcaagatgc	ctagcaat	ttt	gtaatat	ttta	aatgcttctc	aacctctaag	taatagctca	75120
agtttaccaa	gcacagatta	tagcgagaac	agcagtgtac	tggacaaggc	attaatctaa		75180	
aacatgaaat	ggattcaagt	gttttcttag	ggaaagatgt	gcattagtag	ttccccccca		75240	
ccctcatcat	gagaacaaac	aaaggggtgt	atgtaagaaa	tggcatgcaa	atagaatagc		75300	
attggcaaaa	tgaagcggtc	agaaccagat	ttctat	tttgt	aagctggttc	ctcaactcac		75360
agtgatttgg	aagaaggtct	cttcatttct	ggccactttc	gacgctgaaa	ctgcctaagt		75420	
tttcaagtgt	caaaggagaa	tgaatgttaa	ccatcaccaa	gaaagaaaaa	gtccccaaag		75480	
aactatacaa	agaaggtctc	ctaggtgaca	cctatctttg	gtgggtgata	ctgggtctcgg		75540	
gcagaccaga	gggaagggca	gtttctcaag	ataacaggtg	cagactcaca	gagatgagac		75600	
tgaaggatgg	gccaagatag	gagaactttg	tttaggcttt	aataataaaa	cgaaataacct		75660	
gtattgctca	tagcttctc	catctttaag	tcctaaatga	aggagaaatg	aaaaacaaaa		75720	
caggagcaga	tagtttaggc	aaaacaaccc	caacacacca	gaaaaccatc	ttatgctttt		75780	
ttgtcacaa	cccatgatgc	tgatagtgtt	ccctactcag	agtagactga	attatgaggg		75840	
gtagactgaa	ttatgagggg	aacctgccct	aagtctccta	gatagccttg	tagattgcct		75900	
aaaatccagt	gtcaccatga	tcagtttcag	gaccctgatg	gcttcattca	gcgctgacct		75960	
tagttatgg	gagggaggta	gatgcaggca	tgaacatctg	tgctccagag	gacagaaagc		76020	
caagagccct	gaccaagtgc	aggagggagt	tcccctttgg	gctctgggga	agttttcccg		76080	
aggatgtggc	aggatcaagt	gcgtgggctc	cggggctcagc	ccaccttggt	caccttactc		76140	
ctccataaaa	tgaggataag	attcacctca	aagcttatca	gctaacacat	gtaaaatgct		76200	
cagcacagag	cctggcacac	agtgactaat	atgtcattgc	actttgatca	caagagtagc		76260	
agcacttgag	tggcagagat	taggaagcta	ctagtgaaaa	ttctgatcat	atcaggctcc		76320	
tgaccagaag	tattagtgca	acatcttggtg	taaacacatt	agctcttccc	tcttcataac		76380	
tagagccgac	ggtagcgtct	gaattcctcc	taagctgtgt	agccattttc	ctgacatgaa		76440	
ctctaggcat	cctcctagac	acagtccctt	ccccaaaggga	ccttaaatac	caaagggtttt		76500	

ttttaggcca	ctctctctca	ctagtaagtg	aacttcattt	ttcttttagc	tttgttttct	76560
ttttttaata	tatttttttt	atttttagag	atggggcgac	agctctgtct	cccaggctgg	76620
agtgcagtgg	tgctatcata	gctcactgta	accttgaact	cctgggctca	agtctcctcc	76680
cacctcagcc	ttccaaagcc	ctggaatcat	aggcatgagc	aaccatgcct	gtttagcttt	76740
tttcatctta	aaatatctat	ctggttggca	ttctaaactt	aaaactgcag	attttgtcct	76800
gtcccaaaca	aaactcagga	tttacctggg	actcctaatc	ccgcacctcc	catcaccatg	76860
ttgtctgggg	gcttcaccac	ctgaatctga	aatccatcat	ctttactgct	cccacctcta	76920
gtccaagcca	ccaccatttc	tccctggata	actgggccat	cttcgctggt	ttctcccata	76980
aagtcccat	ctccacctag	caaatgtcgg	tgcccagggt	aaaaccctcc	attggcttcc	77040
tgatacacca	caaatgaaat	ctaaaactcta	ccgtggccta	ggaagcccca	cacagggtgg	77100
cccgatgccc	tcccgccact	ctccactggc	ctcagttgtg	ttggctgcac	cccctgagct	77160
gctttctgct	cctcacactt	taagcttcct	ggagcgccag	ccctccacgt	tttctcagtg	77220
gtcgattgca	tctactttt	caggactcag	ttcagaggtc	tgaccctggt	tttattttagc	77280
agtgcccttc	cccagtcaca	ctggattcta	ccatccagtt	ttaccctttc	catacaagca	77340
agaggcctcc	tgctgtggac	tgctcttctt	aggacaacac	tggtccaca	caagtcagcg	77400
aggatgggg	catctttagt	caacatgggt	tcagggtgta	gttctcagga	agtgtttggt	77460
gaatgcatga	gtggacaaaa	gggaggacaa	tgaaatgaga	cggaattccg	tgtgtttcct	77520
gggcagttgg	tgcaagggtt	cctctctcag	gaatcacagc	ttgttaaagg	tcctctgcct	77580
gctatggaca	ggggctccca	tgactcgtct	ggaactgtat	cacctcccaa	agcctggtga	77640
tttcaggctc	attcttgggg	tagacaccac	ctcctgagtc	ccttcctttg	gttaccctgc	77700
tgtccaaggg	ccccacgttg	gggtgcctac	tcaccacaggt	ccatgtttcg	agtccggggg	77760
ttacactgct	tgtaaccctt	gcagctcctc	agctccatga	gctgtacgtg	tagctgggtg	77820
aggacatccc	tgtccagtgt	gttcactgca	ttcatcagct	ggttgcaaaa	aaggtagtct	77880
gtcaacaagg	taagtacagg	gactctcgcc	ctgcccttct	accaaccagg	ggacatat	77940
caggcagggtg	gcgggtggaa	ggtgctaggg	gctggtgacc	tgtttactcc	aacttctgca	78000
agagccagcg	tttggaagag	ttaggtgact	ttttggcttc	aagtcaccac	aggttcactc	78060
ttcatgagag	tgaaaactca	ggagaataaa	aaccacgtct	gtgtatttaa	cgttggagtt	78120
ctgcagccac	tggtcaggaa	acttcccaag	cttggaagaa	aagccttcca	agtcttggtt	78180
ttatcagcag	ccttcattca	ggggccctca	gctcctcctg	attgcaaagc	agccatttga	78240

tgaaaggacg ggtaagtggc ctgggttctt gtgtagtctg ggagctaccg gtgagggact	78300
taacctaccc ctttggtaaa gtatgagggg gaacctatct aaggagaaag actgcacacc	78360
tatatagtaa ttaaagcatt tgtgctgctg acatttaaac atcagatttc atttaaatta	78420
tttcaggctt ttcttgaaa gtcaaagcct gggcaatacc aaggccacag tacaggaaa	78480
ctctagtgt ggagctcagt agtgactgtc cctgtacaag ggcccacatg ttccgatgac	78540
cagacatgcc actgctcctt ttgggtctgt gtgggtcctg gccacttcag tcgcatgtgt	78600
gtttagatgg ctactgtac ggaagcactt agcagagtgc ttgggtgcagt gtgttactgt	78660
tatattagct gcgcgggccg tgtaggccct gcagtgggtg atatttggct tgatcctaca	78720
gcctgacagt gttaggagtc ttcacaagtt ccggcaaac ctggttgcg gctgcatgtt	78780
aagttagagg gaagaagcca tatatattac acacgcaggg tgatggaggc aaaaagcagg	78840
gtgatggagg caaaaaaggc tgattgaaca cagaaccccc aatctcagca gcttcacaac	78900
ttactccac cggtcaggg actcagtggg acttggacaa tttgtcatca cttccctgag	78960
gttggggggg gcctacctgg cagcactggg gtaccccaca ccccatccc tctagctcgg	79020
gttgccctgta cctggtaggg gtctgtgttg agatcaaagt actctaggaa gccagttgca	79080
aattcacaga agaggaaatt gtgagtctca ttgatgggtcc tcatgcacca gtacgtgtta	79140
ttgttggcgc tgggtgcaggc acagaaaggc cccactgcc aaggaagagag agcatgtcct	79200
gagtgcctgc gggaggaggc cccatctgcc aacagtgatt cctgtcaggg acagccccta	79260
aaaccagttc gtcaaagtc aagaggctgt cccgagcacc gtggaccct ggtgttgggg	79320
acccctttc tgagagaggt ctgggtcact aagtggagaa gtttcttgaa cccctgggcc	79380
tcagcctgtc caccctgcc ctgggcttgc tcacgtgtcc agaaaggcgc cgtctgccag	79440
tgctgggtgt cgtgggtgaa gcacgtgagg cctggcatgc tgcacgtgtc gttgttctgc	79500
aggcgcttga gcagcttgcg gagtttctt ttgcgttct gctcccgcaa cagccacacc	79560
ttgtccttct cttgcaggcc ctccctatgg gcgcagaggg ccacacacac cttgggcctc	79620
tgagggatca gtgaccccat gtctctgctc ttctgtcca cctaagggtc tcgctgaggc	79680
ttctccaaca gagagccatg ggcatagcaa ttcagggtcc caagtcccag tgctgtcca	79740
aggcagagcc gggaccagaa cctgggtctt gtcattctac tttaactccc aagggggcac	79800
aagctgggga cagaaccagg cagctactgg gactcctgtt gacaccctt tcccctcctt	79860
cctgtgtcct gccctgcttg gtggagttgc ggtaaccca ttagccaca agggggcgctc	79920

ggaggcccg	tcagtgttga	ttgggaagta	aggcctcttc	gagggctacc	gtggacttcc	79980
caggggaagg	cctggacttc	tttccttttc	ttctgagttt	tagcttaagg	gagggccacc	80040
tcctcatgca	ggcctctgca	tctcttcccc	aggacctcaa	gctgctctta	cctgaaagga	80100
tgcagactgg	agcctctgtg	cttgaggcgg	cctttgtgct	gggtgtggta	gctgtaacag	80160
acccccccag	ccccaggctt	caggagtggc	tcagagggct	ccgctggcag	gtgcaagctg	80220
tgattttctg	gactcccatg	tgttgctgct	gccccacccc	tgtccctcct	tctgggggtg	80280
tgggtggtag	ggcatgaccc	tatcctcagg	gcagcagggt	cctgcctgag	tggcttcttt	80340
ctccaagcat	gagccaggac	tctgcctgga	cttttgctag	acttttagcag	gttgggttaa	80400
ttgtaattta	gccacgacta	gaagctgggc	ctggcttttag	gtgcatcagc	ctcagcatcc	80460
tttttccttt	cttttttgat	ggttaatttt	acatgtcaaa	gcctcagcat	cttgagggtg	80520
gttccctcac	caccctgcct	actcacactt	ggtcgggggtc	aacacaggga	agcctgtgtt	80580
ttgcaacact	ttctggaaaag	acagcagggc	ttctacagct	gtgctgtcca	gtatggtagc	80640
cactggccac	aggtggctac	ttcaatttga	attaagcaaa	ataaaaaatt	tggctcctta	80700
gtgacactag	ccaaaatttt	aagtatgcac	cagccacgtg	tgggtgtagt	cagatatagc	80760
ccatttccgt	cagcacagaa	tgttctatta	gagctgttct	agagttcagt	cctttggggc	80820
aggggacccc	taagccggga	acatggacct	caaaccacat	gggggatttc	tgaaagggca	80880
atcggcagag	gcacttttcc	ggcctggagc	cggctctgcg	cagccagcac	gggtctcttg	80940
ctagcagtac	tggaatctgg	gcgccagcct	ggctgaggag	caggtccgtg	tgccacactg	81000
gctgacaaca	gggaggtaaa	ttacggattt	ttttaatgcc	atgaggggag	aagataaaga	81060
taaaaataaa	aaatgaaagg	ggtcaatcac	gagaggggat	gaactgaact	gtcctgtagg	81120
agagtgggg	cttagggagg	tccctttgct	actgcctcac	ctgattttgt	gacagtcaca	81180
ttcttctggc	cgctttttct	tcaggtgacc	tcggacttcc	ctcaggttct	taattttgtt	81240
ctgcagggtt	tcaatctgag	ggaggggcag	aagaggaggc	cttgaaacct	tcaaggctgg	81300
acaacaaaga	cttggcctgg	tgactgcccc	cacgctgccg	tgtctgtgct	cagcagcggc	81360
agcctgcact	ccccggggcc	cagggcaagc	accggcatgt	ctgggtgggg	aggaggtact	81420
tgttctgcct	gaaggaagcc	cgccttctcc	tccagccagc	ccttgcaagg	gaaccgagtc	81480
atttttccgg	cctggcctgc	gcaggaaccc	gctgagccca	ctgaggcctc	cagtgtctcc	81540
cctgggtttg	atgaaaggcc	tcctgtagcg	tagacttctt	gtaagtcaaa	agggggacaa	81600
cgtggctaag	ccatcgtccc	tcagacggcc	tgggcaggaa	gctatctgtc	tcatgctggg	81660

actgacacct atccccgcgt tgaggaatct gtggggacct cacttcacct ctccagcctc	81720
ttccctgggt ctggcctcac tgccctccca ctgtgaaccg ggggtcctgc caggcccgtg	81780
gtggccgaga gcatgctcct ctcccgtctt ccactcacct cgtgggtcgat gtgcagcttg	81840
tgggtctttcc aggctgcag ggacttgtac aggtccaggt cacactggac tgtgtcgttc	81900
tctaggatgt agcacctgct tgagagaagg gatcacgtgt ggctcggagg tgggtggagg	81960
ggagcagccc aggtgccccaa gaggtgtggg aagcccttgc cgaggctctgt cctgtcccct	82020
tcaccctcga cttccacctg gacactcacc gatgtgtcac tttaatgggg ttggcggctg	82080
aatagtcggg aaggcctcca gtgccactga agtccccacc atccttgtca tcttggtcct	82140
caggggcca agaggtgtgg gaagcccttt gccgaggtct gtctgtccc cttcaccctc	82200
gacttcacc tggacactca ccgatgtgtc actttaatgg ggttggcggc tgagtagtcg	82260
ggaaggcctc cagtgccact gaagtcccca ccatccttgt catcttggtc ctcaggggcc	82320
cctggccagt gccgcttggt gaggtttcgg ggctgggcgg catcaccag gcctacgtgg	82380
tacaccctgc cgtccacctc gatggccact gagcgatgg agcgactgcg gacatagctg	82440
gccttgact ctgtgggcat tagaggagtg gcagagttag ggaggcagga aaggctggcc	82500
aggctcccag ggcagtgggt ccttcatcaa gatagggccg ggcttccaag catgaggctc	82560
agctttgcct gcgactcgag gggtcgtgga atctaccgc ctgctcgag atcctggacc	82620
gcaggggagg gcctcgaggt gatcacaccg gcaagacgga agtcctggag ccaagaagcc	82680
actgactcaa gaggatttca agcgagagct gcttgccgggt aaacaaatgg cgttacatca	82740
tctgtacaac ggaatatgcg accagaacca ggagcgaggt tctgattcac gctagagcgt	82800
ggatgaatgt caaaagcagg cggagtgaaa ccagccagac acaaagcggg ctcgatttgt	82860
tacattctat ttataggaac taccagaat aggtaaatct atagcggcag aaagaagatt	82920
ggtgattgcc aggggctggg ggagagggtg gtgaggagt actgctttgt gggtagcggg	82980
ttcccttttg gggatgatga atgttttgga actaggtaga ggtgtgcaac actgtgaacc	83040
tattaaatgc ctctgcattg tatataattg taaaaatggg gagtttgatg ttatctgaac	83100
ttcacctcaa ttaaaaagga aaaaaagtat catggatgta aaaatgttga tttaaaactgg	83160
gaaaaagggg ccctgcagtg cctgtctctg ggtagaaatg gacggggact ggggaagcca	83220
cctagcttct ttgagtccca gagagctgga ggctgccac caggtggtag gcaggtgcta	83280
caccaggtg ggccggcaac aaggctgagg ggggcttttg catacgccct gacgctgaaa	83340

actcaggggt	gcaggctgaa	gtgacacccc	aggtagcctg	tatcttctat	gtctcaaaaa	83400
caaatctgag	ttggtaacat	taaagaaaaa	ggggaggtgg	tggcggatgat	gtagggatcc	83460
agatttccag	cttccagaaa	ggaaacagat	gtctcacggg	cccacagttc	catatggtca	83520
ggacggggccg	gggatgggcg	gcccctttgg	ctgcccactg	tcttccctgt	tggccacagc	83580
ccccgccact	ccttccgtgt	ttaaaacctc	tgcccacctg	acacatgtct	ggccccagca	83640
ggcacgcact	gcagttgtca	tccttctcca	gatgtgcctc	atttaaagag	aagggcctgg	83700
agccagttag	tgaccacaggt	tttgttggat	cccaagtgc	cccgagatgg	tgaccaaaga	83760
ggaccagctg	gaggcaggtg	gtggcggaag	gcagtgggaag	gagggaggaa	agggctccct	83820
tctcacgtgg	cccgggtgcc	acccccactc	ttgggggatg	ttttgtatct	ttcagttctc	83880
agacaccttg	catcagagtc	acaagggccg	aaggatcctg	agggggccggg	aaaggcctcc	83940
cctctccagc	agagccttgg	gccttttctg	acacagggca	gccttctcct	gggcacttct	84000
ctccctcggt	ttagtctccc	gatgcaagta	cacaaattgc	cgaggatggt	ccctgtgcca	84060
agcaggctcct	gccccgagag	gctcaggaaa	tagaccacgc	gtgtcctctc	cactcctttt	84120
gtctcagtcg	gtcataagt	gagctgcttt	gcctctttcc	accctccatc	tcccagctct	84180
agattcaggg	gtccctaaac	catggcctaa	ggggccaggc	cagcctccat	ctgtctttgt	84240
gaatacagtt	tactgggta	cagctgctcg	cattccctta	tacctctgca	gtcgcagggc	84300
tgagttgcaa	agcccaagac	ctttactctc	tggctcttca	cagaagcggg	atgccagccc	84360
tgtgtgaatc	ctttcctgga	ctgaagccac	actacctgct	ctcccatca	ctctgtgttc	84420
atgtccagag	tcctggaggt	acccttcctg	ccacaccaac	agggaatggg	acaggacttc	84480
ataaccggc	ggccaagagc	tttgactctg	caatcagatg	gctcaggtgc	aaaccctga	84540
gcacatgtgt	ggccccggcg	atttgggtaa	cttctcagga	tgggtgcctac	cctacaaagg	84600
ctccttggag	gatggcacga	aacggaacta	gtgaagcatt	catgcctgat	gagctggtgt	84660
ggaccagcta	ctgcaggggg	tggggactct	gcctgcagct	gacgtcctca	cctaaggtga	84720
caaccctggg	cccactccct	gcctctccac	gccggtgacc	gcctgtgtga	tgtggctgcc	84780
catgcccattg	gtgcttctca	ccaccctcgg	ccacaccggg	cacctctctg	tgactgggac	84840
tcaccgccct	gattctgagc	acagggtctt	tgtactccat	cttcctcctc	ctcagaacac	84900
ttgctctctg	gctggtcaca	agacctgctc	ctttctgtac	tttgttctca	ttaaagtgtcc	84960
attgagcgcc	attctggagc	cgcacccct	ctctgctagt	cccgccaccg	ctgcgtctcc	85020
ttcatgcgtt	tttcaccagc	ggaagtggcc	ctttgttcac	ttgttcacat	cttgtttcat	85080

ccatgagggtc caagtccgtg tctctccagg tcaactctaa tctcagtgtc ttgcacaaaag 85140
ttcaagaaat gaatgaaccc cagtcagctg ggcccatccc ccgagtcctc gtcccccttct 85200
cctgttcctg ggtccccctt ctgctgtgag ctggctggct ctgcctaacc tccccacgcc 85260
acagccagga tccccgtgga tcaagggtgg ccagggcttc ccaaccttac cactgcggac 85320
actttggggc cagatcaaac tctgtggtgg gggccgtcct gtgcgttgca agatgttttg 85380
ccgcatccat agcctctgct cactagacgc cagcagcacc cctccatcac acacaattgt 85440
gacagccaaa actgtctcca aacattgcca agtgtcccct gggggacaga aagccccag 85500
ttcagcctgc tctaggctga ctgctcagaa aagagggaca gagtgtcttg tcggagactc 85560
tagcaggggg aagaatgcca ggcaggagat ggggctggag tccccaaatc agccacgtga 85620
cccagtcttt cctgtccatc atccccctgat gatcaccctt gccctgctca cagggtgtgt 85680
gagaggtgca ggtcccggct ctgacattac actcacatga ggattctgac cagggtgtgag 85740
ctgactctca gctactttta ggtatttttc tttcctctaa gcattaataa ggggaaaaga 85800
gctgaatttc tccctgccag atcttgtatt atttaaagat tatcgactgt gccacatatt 85860
gaagcaagga gatgctggct gtgtaatcca atctggaaac caatcattct gttcagctag 85920
aaaagttaat gtagtagttc ctaatcagct ggtgaggaaa tgtaacggag ggtcatcagc 85980
tgggaaacgg tgtttcaggc agtggctggg ctgttatgga gagagactta tctgctccac 86040
gatgaagaca tttgctgcct ggctggctgg accagaggag atcactgcgc ctgccgtcag 86100
agacctcaat ctctaactag tctgtgttac aatatcatcc gtcttataaa gaatggagac 86160
tttttgtttt ttttgagaca gtcttgctct gtcaccagg ctggagtga gtggcatgat 86220
ctcagttcac tgcaacctcc cgctcccagg ttcaagccat tctagtgcct cagcctcctg 86280
agtagcaggg actacaggcg cccaccacca tgccctggcta atttttgtat ttttagtaga 86340
cacgggtttc accttggttg ccagactggt ctcgaaactt tgagctcagg caatccgcct 86400
gccttggcct cccgaaatgc tgggattaca ggcgtgagcc actgtgcccg atc 86453

<210> 6
<211> 4397
<212> DNA
<213> Homo sapiens

<400> 6
gagcgagagt gtgtcgagtg agtgtgcgtc tgttgtgtccc ggcgaggggtg cgcgctcggc 60
gccgggagcg cggccagccg agtccggagg catcgggagg tcgagagccg ccgggacccc 120

agctctgcgt t	actgcccc g	tccggagct g	gacttcggg g	ccggggccg g	ggccgtgcg	180
ccggggacag g	caggggccg g	gtcgcgggcc g	gcgcgtcccc c	caggccggag a	atctgcgagt	240
gaagagggac a	aagggaaaa g	aaacaaagcc a	acagacgcaa c	cttgagactc c	ccgcatccca	300
aaagaagcac c	cagatcagca a	aaaaaagaag a	atgggcccc c	cgagcctcgt g	gctgtgcttg	360
ctgtccgcaa c	ctgtgttctc c	cctgctgggt g	ggaagctcgg c	ccttcctgtc g	gcaccaccgc	420
ctgaaaggca g	ggtttcagag g	ggaccgcagg a	aacatccgcc c	ccaacatcat c	cctggtgctg	480
acggacgacc a	aggatgtgga g	gctgggttcc a	atgcagggtga t	tgaacaagac c	ccggcgcatac	540
atggagcagg g	gcgggacgca c	cttcatcaac g	gccttcgtga c	ccacacccat g	gtgctgcccc	600
tcacgctcct c	ccatcctcac c	cggcaagtac g	gtccacaacc a	acaacaccta c	caccaacaat	660
gagaactgct c	cctcgccctc c	ctggcaggga c	cagcacgaga g	gccgcacctt t	tgccgtgtac	720
ctcaatagca c	ctggctaccg g	gacagctttc c	ttcgggaagt a	atcttaatga a	atacaacggc	780
tcctacgtgc c	cacccggctg g	gaaggagtgg g	gtcggactcc c	ttaaaaaactc c	ccgcttttat	840
aactacacgc c	tgtgtcggaa g	cggggtgaaa g	gagaagcacg g	gctccgacta c	ctccaaggat	900
tacctcacag c	acctcatcac c	caatgacagc g	gtgagcttct c	tccgcacgtc c	caagaagatg	960
taccgcaca c	ggccagtcct c	catggtcatc c	agccatgcag c	ccccccacgg c	ccctgaggat	1020
tcagccccac c	aatatccacg c	cctcttccca c	aacgcatctc c	agcacatcac c	gccgagctac	1080
aactacgcgc c	ccaaccgga c	caaacaactgg a	atcatgcgct c	acacggggcc c	catgaagccc	1140
atccacatgg a	aattcaccaa c	catgctccag c	cgggaagcgt c	tgcagaccct c	catgtcggtg	1200
gacgactcca c	tggagacgat c	ttacaacatg c	ctggttgaga c	cgggcgagct c	ggacaacacg	1260
tacatcgatat	acaccgccga c	ccacgggttac c	cacatcggcc c	agtttggcct c	ggtgaaaggg	1320
aaatccatgc c	catatgagtt c	tgacatcagg c	gtcccgttct c	acgtgagggg c	ccccaacgtg	1380
gaagccggct c	gtctgaatcc c	ccacatcgtc c	ctcaacattg c	acctggcccc c	caccatcctg	1440
gacattgcag c	gcctggacat c	acctgcggat c	atggacggga c	aatccatcct c	caagctgctg	1500
gacacggagc c	ggccggtgaa c	tcggtttcac c	ttgaaaaaga c	agatgagggg c	ctggcgggac	1560
tccttcttgg c	tggagagagg c	caagctgcta c	cacaagagag c	acaatgacaa c	ggtggacgcc	1620
caggaggaga c	actttctgcc c	caagtaccag c	cgtgtgaagg c	acctgtgtca c	gcgtgctgag	1680
taccagacgg c	cgtgtgagca c	gctgggacag c	aagtggcagt c	gtgtggagga c	cgccacgggg	1740
aagctgaagc c	tgcataagtg c	caagggcccc c	atgcggctgg c	gcggcagcag c	agccctctcc	1800

aacctcgtgc ccaagtacta cgggcagggc agcgaggcct gcacctgtga cagcggggac	1860
tacaagctca gcctggccgg acgccgaaa aaactcttca agaagaagta caaggccagc	1920
tatgtccgca gtcgctccat ccgctcagtg gccatcgagg tggacggcag ggtgtaccac	1980
gtaggcctgg gtgatgccgc ccagccccga aacctcacca agcggcactg gccaggggcc	2040
cctgaggacc aagatgacaa ggatggtggg gacttcagtg gcactggagg ctttcccgac	2100
tactcagccg ccaaccccat taaagtgaca catcggtgct acatcctaga gaacgacaca	2160
gtccagtggtg acctggacct gtacaagtcc ctgcaggcct ggaaagacca caagctgcac	2220
atcgaccacg agattgaaac cctgcagaac aaaattaaga acctgaggga agtccgaggt	2280
cacctgaaga aaaagcggcc agaagaatgt gactgtcaca aaatcagcta ccacaccag	2340
cacaaaggcc gcctcaagca cagaggctcc agtctgcatc ctttcaggaa gggcctgcaa	2400
gagaaggaca aggtgtggct gttgcgggag cagaagcgca agaagaaact ccgcaagctg	2460
ctcaagcgcc tgcagaacaa cgacacgtgc agcatgccag gcctcacgtg cttcaccac	2520
gacaaccagc actggcagac ggcgcctttc tggacactgg ggcctttctg tgctgcacc	2580
agcgccaaca ataacacgta ctggtgcatg aggaccatca atgagactca caatttcctc	2640
ttctgtgaat ttgcaactgg cttcctagag tactttgatc tcaacacaga cccctaccag	2700
ctgatgaatg cagtgaacac actggacagg gatgtcctca accagctaca cgtacagctc	2760
atggagctga ggagctgcaa gggttacaag cagtgttaacc cccggactcg aaacatggac	2820
ctgggactta aagatggagg aagctatgag caatacaggc agtttcagcg tcgaaaagtg	2880
ccagaaatga agagaccttc ttccaaatca ctgggacaac tgtgggaagg ctgggaaggt	2940
taagaaacaa cagaggtgga cctccaaaaa catagaggca tcacctgact gcacaggcaa	3000
tgaaaaacca tgtgggtgat ttccagcaga cctgtgctat tggccaggag gcctgagaaa	3060
gcaagcacgc actctcagtc aacatgacag attctggagg ataaccagca ggagcagaga	3120
taacttcagg aagtccattt ttgcccctgc ttttgctttg gattatacct caccagctgc	3180
acaaaatgca ttttttcgta tcaaaaagtc accactaacc ctccccaga agctcacaaa	3240
ggaaaacgga gagagcgagc gagagagatt tccttgghaa tttctcccaa gggcgaaaagt	3300
cattggaatt tttaaatcat aggggaaaag cagtcctgtt ctaaatcctc ttattctttt	3360
ggtttgtcac aaagaaggaa ctaagaagca ggacagaggc aacgtggaga ggctgaaaac	3420
agtgcagaga cgtttgacaa tgagtcagta gcacaaaaga gatgacattt acctagcact	3480
ataaaccttg gttgcctctg aagaaactgc cttcattgta tatatgtgac tattttacatg	3540

taatcaacat ggggaactttt aggggaacct aataagaaat cccaattttc aggagtgggtg	3600
gtgtcaataa acgctctgtg gccagtgtaa aagaaaatcc ctgcagttg tggacatttc	3660
tgttcctgtc cagataccat ttctcctagt atttctttgt tatgtcccag aactgatggt	3720
ttttttttaa ggtactgaaa agaaatgaag ttgatgtatg tcccaagttt tgatgaaaact	3780
gtatttgtaa aaaaaatttt gtagtttaag tattgtcata cagtgttcaa aaccccagcc	3840
aatgaccagc agttgggtatg aagaaccttt gacattttgt aaaaggccat ttctttcttg	3900
ggagtttttt ggtgtgtctg tttttttaaa gtattcaaga tactaccagt caacatcttt	3960
ttggaagaaa atgccttggg tttagaagat tttcttaaaa ggggagtaga tggttgtaga	4020
ttgactaaaa agtctaccat acttcaaggg actacaggta agtctcatag tataccagct	4080
ttggtacttc attttttaaa aaagtattaa tcaattgcaa agaaattcgc cttggccaac	4140
ccttctttgt gtatcaggta gtctaacctg atacaagtag ttgacagatt tcaactatca	4200
atcaccagtc caaccattt ctcatttaac agatgacgga gataatccct aaaagcaccc	4260
acatttgttt caatgcccc aacaggccaa ggctccctag caactcccta gtggcgtttt	4320
ttaacttctc agaaactggt accattattt gaaataggct tccttaacct cctttaccct	4380
taaccaaca gggattt	4397

<210> 7
 <211> 1661
 <212> DNA
 <213> Homo sapiens

<400> 7	
ggcactggcc aggggcccct gaggaccaag atgacaagga tggtagggac ttcagtggca	60
ctggaggcct tcccgactac tcagccgcca accccattaa agtgacacat cgggtgtaca	120
tcctagagaa cgacacagtc cagtgtgacc tggacctgta caagtccctg caggcctgga	180
aagaccacaa gctgcacatc gaccacgaga ttgaaaccct gcagaacaaa attaagaacc	240
tgagggaagt ccgaggtcac ctgaagaaaa agcggccaga agaattgtgac tgtcacaaaa	300
tcagctacca caccagcac aaaggccgcc tcaagcacag aggctccagt ctgcatcctt	360
tcaggaaggg cctgcaagag aaggacaagg tgtggctggt gcgggagcag aagcgcaaga	420
agaaactccg caagctgtc aagcgctgc agaacaacga cacgtgcagc atgccaggcc	480
tcacgtgctt caccacgac aaccagcact ggcagacggc gcctttctgg aactggggc	540
ctttctgtgc ctgcaccagc gccacaata acacgtactg gtgcatgagg accatcaatg	600

agactcacaa tttcctcttc tgtgaatttg caactggcctt cctagagtac tttgatctca	660
acacagaccc ctaccagctg atgaatgcag tgaacacact ggacagggat gtcctcaacc	720
agctacacgt acagctcatg gagctgagga gctgcaaggg ttacaagcag tgtaaccccc	780
ggactcgaaa catggacctg ggacttaaaag atggaggaag ctatgagcaa tacaggcagt	840
ttcagcgctg aaagtggcca gaaatgaaga gaccttcttc caaatcactg ggacaactgt	900
gggaaggctg ggaagggtta gaaacaacag aggtggacct ccaaaaacat agaggcatca	960
cctgactgca caggcaatga aaaacatgtt gggtgatttc cagcagacct gtgctattgg	1020
ccaggaggcc tgagaaaagca agcacgcact ctcaagtcaac atgacagatt ctggaggata	1080
accagcagga gcagagataa cttcaggaag tccatttttg cccctgcttt tgctttggat	1140
tatacctcac cagctgcaca aaatgcattt tttcgtatca aaaagtcacc actaaccttc	1200
ccccagaagc tcacaaagga aaacggagag agcgagcgag agagatttcc ttggaaattt	1260
ctcccaaggc cgaaagtcatt tggaattttt aaatcatagg ggaaaagcag tcctgttcta	1320
aatcctctta ttcttttggg ttgtcacaaa gaaggaaacta agaagcagga cagaggcaac	1380
gtggagaggc tgaaaacagt gcagagacgt ttgacaatga gtcagtagca caaaagagat	1440
gacatttacc tagcactata aaccctgggt gcctctgaag aaactgcctt cattgtatat	1500
atgtgactat ttacatgtaa tcaacatggg aacttttagg ggaacctaata aagaaatccc	1560
aattttcagg agtgggtggg tcaataaacg ctctgtggcc agtgtaaaaag aaaaaaaaaa	1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a	1661

<210> 8
 <211> 3906
 <212> DNA
 <213> Homo sapiens

<400> 8	
ctcgggcgcg cacaggcagc tcggtttgcc ctgcgattga gctgcgggtc gcggccggcg	60
ccggcctctc caatggcaaa tgtgtgtggc tggaggcgag cgcgaggctt tcggcaaagg	120
cagtcgagtg tttgcagacc ggggcgagtc ctgtgaaagc agataaaaga aaacatttat	180
taacgtgtca ttacgagggg agcgcccggc cggggctgtc gcaactccccg cggaacattt	240
ggctccctcc agctccgaga gaggagaaga agaaagcgga aaagaggcag attcacgtcg	300
tttccagcca agtggacctg atcgatggcc ctctgaatt tatcacgata tttgatttat	360
tagcgatgcc ccctggtttg tgtgttacgc acacacacgt gcacacaagg ctctggctcg	420

cttccctccc tcgtttccag ctcttgggcg aatcccacat ctgtttcaac tctccgccga	480
gggcgagcag gagcgagagt gtgtcgaatc tgcgagtga gagggacgag ggaaaagaaa	540
caaagccaca gacgcaactt gagactcccg catccccaaa gaagcaccag atcagcaaaa	600
aaagaagatg ggccccccga gcctcgtgct gtgcttgctg tccgcaactg tgttctccct	660
gctgggtgga agctcggcct tcctgtcgca ccaccgctg aaaggcaggt ttcagagggga	720
ccgcaggaac atccgcccc aatcatcct ggtgctgacg gacgaccagg atgtggagct	780
gggttccatg caggtgatga acaagacccg gcgcatcatg gagcagggcg gggcgcaactt	840
catcaacgcc ttcgtgacca caccatgtg ctgcccctca cgctcctcca tcctcactgg	900
caagtacgtc cacaaccaca acacctacac caacaatgag aactgctcct cgccctcctg	960
gcaggcacag cacgagagcc gcacctttgc cgtgtacctc aatagcactg gctaccggac	1020
agctttcttc gggaaagtatc ttaatgaata caacggctcc tacgtgccac ccggctggaa	1080
ggagtgggtc ggactcctta aaaactcccg cttttataac tacacgctgt gtcggaacgg	1140
ggtgaaagag aagcacggct ccgactactc caaggattac ctcacagacc tcatcaccaa	1200
tgacagcgtg agcttcttcc gcacgtccaa gaagatgtac ccgcacaggc cagtcctcat	1260
ggtcatcagc catgcagccc cccacggccc tgaggattca gcccacaaat attcacgcct	1320
cttcccaaac gcatctcagc acatcacgcc gagctacaac tacgcgcccc acccggacaa	1380
acactggatc atgcgctaca cggggcccc gaagcccac cacaatggaat tcaccaacat	1440
gctccagcgg aagcgcttgc agaccctcat gtcggtggac gactccatgg agacgattta	1500
caacatgctg gttgagacgg gcgagctgga caacacgtac atcgtataca ccgccgacca	1560
cggttaccac atcggccagt ttggcctggg gaaagggaaa tccatgccat atgagtttga	1620
catcagggtc ccgttctacg tgagggggccc caacgtggaa gccggctgtc tgaatcccca	1680
catcgtcctc aacattgacc tggccccac catcctggac attgcaggcc tggacatacc	1740
tgcggatatg gacgggaaat ccatcctcaa gctgctggac acggagcggc cggatgaatcg	1800
gtttcacttg aaaaagaaga tgaggggtctg gcgggactcc ttcttggtgg agagaggcaa	1860
gctgctacac aagagagaca atgacaagggt ggacgccag gaggagaaact ttctgccccaa	1920
gtaccagcgt gtgaaggacc tgtgtcagcg tgctgagtac cagacggcgt gtgagcagct	1980
gggacagaag tggcagtgtg tggaggacgc cacggggaag ctgaagctgc ataagtgcaa	2040
gggccccatg cggctgggcg gcagcagagc cctctccaac ctcgtgcccc agtactacgg	2100

gcagggcagc gaggcctgca cctgtgacag cggggactac aagctcagcc tggccggacg	2160
ccggaaaaaa ctcttcaaga agaagtacaa ggccagctat gtccgcagtc gctccatccg	2220
ctcagtggcc atcgaggtgg acggcaggggt gtaccacgta ggcctgggtg atgccgccca	2280
gccccgaaac ctcaccaagc ggcaactggcc agggggcccct gaggaccaag atgacaagga	2340
tgggtggggac ttcagtggca ctggaggcct tcccgaactac tcagccgccca accccattaa	2400
agtgcacacat cgggtgctaca tcctagagaa cgacacagtc cagtgtgacc tggacctgta	2460
caagtccctg caggcctgga aagaccacaa gctgcacatc gaccacgaga ttgaaaccct	2520
gcagaacaaa attaagaacc tgaggggaagt ccgaggtcac ctgaagaaaa agcggccaga	2580
agaatgtgac tgtcacaaaa tcagctacca caccagcac aaaggccgcc tcaagcacag	2640
aggctccagt ctgcatcctt tcaggaagggt cctgcaagag aaggacaagg tgtggctgtt	2700
gcgggagcag aagcgcaaga agaaactccg caagctgctc aagcgctgc agaacaacga	2760
cacgtgcagc atgccaggcc tcacgtgctt caccacgac aaccagcact ggcagacggc	2820
gcctttcttg acaactggggc ctttctgtgc ctgcaccagc gccaacaata acacgtactg	2880
gtgcatgagg accatcaatg agactcaciaa tttcctcttc tgtgaatttg caactggctt	2940
cctagagtac tttgatctca acacagaccc ctaccagctg atgaatgcag tgaacacact	3000
ggacagggat gtcctcaacc agctacacgt acagctcatg gagctgagga gctgcaaggg	3060
ttacaagcag tgtaaccccc ggactcgaaa catggacctg gatggaggaa gctatgagca	3120
atacaggcag tttcagcgtc gaaagtggcc agaaatgaag agaccttctt ccaaactact	3180
gggacaactg tgggaaggct gggaagggtta agaaacaaca gaggtggacc tccaaaaaca	3240
tagaggcatc acctgactgc acaggcaatg aaaaaccatg tgggtgattt ccagcagacc	3300
tgtgctattg gccaggaggc ctgagaaaagc aagcacgcac tctcagtcaa catgacagat	3360
tctggaggat aaccagcagg agcagagata acttcaggaa gtccatTTTT gcccctgctt	3420
ttgctttgga ttatacctca ccagctgcac aaaatgcatt ttttcgtatc aaaaagtcac	3480
cactaacctt cccccagaag ctcacaaaag aaaacggaga gagcgagcga gagagatttc	3540
cttggaattt tctcccaagg gcgaaagtca ttggaatttt taaatcatag gggaaaagca	3600
gtcctgttct aaatcctctt attcttttgg tttgtcaciaa agaaggaaact aagaagcagg	3660
acagaggcaa cgtggagagg ctgaaaacag tgcagagacg tttgacaatg agtcagtagc	3720
acaaaagaga tgacatttac ctagcactat aaaccctggg tgcctctgaa gaaactgcct	3780
tcattgtata tatgtgacta tttacatgta atcaacatgg gaacttttag gggaacctaa	3840

taagaaatcc caatttttcag gagtgggtggt gtcaataaac gctctgtggc cagtgtaaaa	3900
gaaaaa	3906

<210> 9
 <211> 3843
 <212> DNA
 <213> Homo sapiens

<400> 9	
gagcgagagt gtgtcgagtg agtgtgcgtc tgtgtgtccc ggcgaggggtg cgcgctcggc	60
gccgggagcg cggccagccg agtccggagg catcgggagg tcgagagccg ccgggacccc	120
agctctgcgt tcaactgcccc gtccggagct ggacttcggg gccggggccg gggccgtgcg	180
ccgggggacag gcagggcccg gtcgcggggc gcgcgtcccc caggccggag atctgcgagt	240
gaagagggac gagggaaaag aaacaaagcc acagacgcaa cttgagactc ccgcatccca	300
aaagaagcac cagatcagca aaaaaagaag atgggcccc cgagcctcgt gctgtgcttg	360
ctgtccgcaa ctgtgttctc cctgctgggt ggaagctcgg ccttcctgtc gcaccaccgc	420
ctgaaaggca ggtttcagag ggaccgcagg aacatccgcc ccaacatcat cctggtgctg	480
acggacgacc aggatgtgga gctgggttcc atgcaggtga tgaacaagac ccggcgcac	540
atggagcagg gcggggcgca cttcatcaac gccttcgtga ccacacccat gtgctgcccc	600
tcacgctcct ccacctcac tggcaagtac gtccacaacc acaacaccta caccaacaat	660
gagaactgct cctcgccctc ctggcaggca cagcacgaga gccgcacctt tgccgtgtac	720
ctcaatagca ctggctaccg gacagctttc ttccgggaagt atcttaatga atacaacggc	780
tcctacgtgc caccggctg gaaggagtgg gtcggactcc ttaaaaactc ccgcttttat	840
aactacacgc tgtgtcggaa cggggtgaaa gagaagcacg gctccgacta ctccaaggat	900
tacctcacag acctcatcac caatgacagc gtgagcttct tccgcacgtc caagaagatg	960
taccgcaca ggccagtcct catggtcatc agccatgcag ccccccacgg ccctgaggat	1020
tcagccccac aatattcacg cctcttccca aacgcatctc agcacatcac gccgagctac	1080
aactacgcgc ccaacccgga caaacactgg atcatgcgct acacggggcc catgaagccc	1140
atccacatgg aattcaccaa catgctccag cggaagcgct tgcagaccct catgtcgggtg	1200
gacgactcca tggagacgat ttacaacatg ctggttgaga cgggcgagct ggacaacacg	1260
tacatcgat acaccgccga ccacggttac cacatcggcc agtttggcct ggtgaaaggg	1320
aaatccatgc catatgagtt tgacatcagg gtcccgttct acgtgagggg cccaacgtg	1380

gaagccggct	gtctgaatcc	ccacatcgtc	ctcaacattg	acctggcccc	caccatcctg	1440
gacattgcag	gcctggacat	acctgcggat	atggacggga	aatccatcct	caagctgctg	1500
gacacggagc	ggccggtgaa	tcggtttcac	ttgaaaaaga	agatgagggg	ctggcgggac	1560
tccttcttgg	tggagagagg	caagctgcta	cacaagagag	acaatgacaa	ggtggacgcc	1620
caggaggaga	actttctgcc	caagtaccag	cgtgtgaagg	acctgtgtca	gcgtgctgag	1680
taccagacgg	cgtgtgagca	gctgggacag	aagtggcagt	gtgtggagga	cgccacgggg	1740
aagctgaagc	tgcataagtg	caagggcccc	atgcggctgg	gcggcagcag	agccctctcc	1800
aacctcgtgc	ccaagtacta	cgggcagggc	agcgaggcct	gcacctgtga	cagcggggac	1860
tacaagctca	gcctggccgg	acgccggaaa	aaactcttca	agaagaagta	caaggccagc	1920
tatgtccgca	gtcgtcccat	ccgctcagt	gccatcgagg	tggacggcag	ggtgtaccac	1980
gtaggcctgg	gtgatgccgc	ccagccccga	aacctcacca	agcggcactg	gccagggggc	2040
cctgaggacc	aagatgacaa	ggatgggtgg	gacttcagt	gcaactggagg	ccttcccagc	2100
tactcagccg	ccaaccccat	taaagtgaca	catcgggtgt	acatcctaga	gaacgacaca	2160
gtccagtgtg	acctggacct	gtacaagtcc	ctgcaggcct	ggaaagacca	caagctgcac	2220
atcgaccacg	agattgaaac	cctgcagaac	aaaattaaga	acctgaggga	agtccgaggt	2280
cacctgaaga	aaaagcggcc	agaagaatgt	gactgtcaca	aaatcagcta	ccacaccacg	2340
cacaaaggcc	gcctcaagca	cagaggctcc	agtctgcac	ctttcaggaa	gggcctgcaa	2400
gagaaggaca	aggtgtggct	gttgccgggag	cagaagcgca	agaagaaact	ccgcaagctg	2460
ctcaagcgcc	tgcagaacaa	cgacacgtgc	agcatgccag	gcctcacgtg	cttcacccac	2520
gacaaccagc	actggcagac	ggcgcctttc	tggacactgg	ggcctttctg	tgcctgcacc	2580
agcgccaaca	ataacacgta	ctggtgcatg	aggaccatca	atgagactca	caatttcctc	2640
ttctgtgaat	ttgcaactgg	cttcctagag	tactttgatc	tcaacacaga	cccctaccag	2700
ctgatgaatg	cagtgaacac	actggacagg	gatgtcctca	accagctaca	cgtacagctc	2760
atggagctga	ggagctgcaa	gggttacaag	cagtgttaacc	cccggactcg	aaacatggac	2820
ctgggactta	aagatggagg	aagctatgag	caatacaggg	gacaactgtg	ggaaggctgg	2880
gaaggttaag	aaacaacaga	ggtggacctc	caaaaacata	gaggcatcac	ctgactgcac	2940
aggcaatgaa	aaaccatgtg	ggtgatttcc	agcagacctg	tggtattggc	caggaggcct	3000
gagaaagcaa	gcacgcactc	tcagtcaaca	tgacagattc	tggaggataa	ccagcaggag	3060

cagagataac ttcaggaagt ccatttttgc ccctgctttt gctttggatt atacctcacc 3120
 agctgcacaa aatgcatttt ttcgtatcaa aaagtcacca ctaaccctcc cccagaagct 3180
 cacaaaggaa aacggagaga gcgagcgaga gagatttcct tggaaatttc tcccaagggc 3240
 gaaagtcatt ggaattttta aatcataggg gaaaagcagt cctgttctaa atcctcttat 3300
 tcttttggtt tgtcacaaag aaggaactaa gaagcaggac agaggcaacg tggagaggct 3360
 gaaaacagtg cagagacgtt tgacaatgag tcagtagcac aaaagagatg acatttacct 3420
 agcactataa accctgggtg cctctgaaga aactgccttc attgtatata tgtgactatt 3480
 tacatgtaat caacatggga acttttaggg gaacctaata agaaatccca attttcagga 3540
 gtggtggtgt caataaacgc tctgtggcca gtgtaaaaga aaatccctcg cagttgtgga 3600
 catttctgtt cctgtccaga taccatttct ctagtattt ctttgttatg tcccagaact 3660
 gatgtttttt ttttaaggta ctgaaaagaa atgaagtga tgtatgtccc aagttttgat 3720
 gaaactgtat ttgtaaaaaa aattttgtag tttaagtatt gtcatacagt gttcaaaacc 3780
 ccagccaatg accagcagtt ggtatgaaga acctttgaca ttttgtaaaa ggccatttct 3840
 tgg 3843

<210> 10
 <211> 871
 <212> PRT
 <213> Homo sapiens

<400> 10

Met Lys Tyr Ser Cys Cys Ala Leu Val Leu Ala Val Leu Gly Thr Glu
 1 5 10 15

Leu Leu Gly Ser Leu Cys Ser Thr Val Arg Ser Pro Arg Phe Arg Gly
 20 25 30

Arg Ile Gln Gln Glu Arg Lys Asn Ile Arg Pro Asn Ile Ile Leu Val
 35 40 45

Pro Thr Asp Asp Gln Asp Val Glu Leu Gly Ser Leu Gln Val Met Asn
 50 55 60

Lys Thr Arg Lys Ile Met Glu His Gly Gly Ala Thr Phe Ile Asn Ala
 65 70 75 80

Phe Val Thr Thr Pro Met Cys Cys Pro Ser Arg Ser Ser Met Leu Thr

85

90

95

Gly Lys Tyr Val His Asn His Asn Val Tyr Thr Asn Asn Glu Asn Cys
 100 105 110

Ser Ser Pro Ser Trp Gln Ala Met His Glu Pro Arg Thr Phe Ala Val
 115 120 125

Tyr Leu Asn Asn Thr Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr Leu
 130 135 140

Asn Glu Tyr Asn Gly Ser Tyr Ile Pro Pro Gly Trp Arg Glu Trp Leu
 145 150 155 160

Gly Leu Ile Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Val Cys Arg Asn
 165 170 175

Gly Ile Lys Glu Lys His Gly Phe Asp Tyr Ala Lys Asp Tyr Phe Thr
 180 185 190

Asp Leu Ile Thr Asn Glu Ser Ile Asn Tyr Phe Lys Met Ser Lys Arg
 195 200 205

Met Tyr Pro His Arg Pro Val Met Met Val Ile Ser His Ala Ala Pro
 210 215 220

His Gly Pro Glu Asp Ser Ala Pro Gln Phe Ser Lys Leu Tyr Pro Asn
 225 230 235 240

Ala Ser Gln His Ile Thr Pro Ser Tyr Asn Tyr Ala Pro Asn Met Asp
 245 250 255

Lys His Trp Ile Met Gln Tyr Thr Gly Pro Met Leu Pro Ile His Met
 260 265 270

Glu Phe Thr Asn Ile Leu Gln Arg Lys Arg Leu Gln Thr Leu Met Ser
 275 280 285

Val Asp Asp Ser Val Glu Arg Leu Tyr Asn Met Leu Val Glu Thr Gly
 290 295 300

Glu Leu Glu Asn Thr Tyr Ile Ile Tyr Thr Ala Asp His Gly Tyr His

305		310		315		320
Ile Gly Gln Phe Gly Leu Val Lys Gly Lys Ser Met Pro Tyr Asp Phe						
	325			330		335
Asp Ile Arg Val Pro Phe Phe Ile Arg Gly Pro Ser Val Glu Pro Gly						
	340			345		350
Ser Ile Val Pro Gln Ile Val Leu Asn Ile Asp Leu Ala Pro Thr Ile						
	355			360		365
Leu Asp Ile Ala Gly Leu Asp Thr Pro Pro Asp Val Asp Gly Lys Ser						
	370			375		380
Val Leu Lys Leu Leu Asp Pro Glu Lys Pro Gly Asn Arg Phe Arg Thr						
	385			390		395
Asn Lys Lys Ala Lys Ile Trp Arg Asp Thr Phe Leu Val Glu Arg Gly						
	405			410		415
Lys Phe Leu Arg Lys Lys Glu Glu Ser Ser Lys Asn Ile Gln Gln Ser						
	420			425		430
Asn His Leu Pro Lys Tyr Glu Arg Val Lys Glu Leu Cys Gln Gln Ala						
	435			440		445
Arg Tyr Gln Thr Ala Cys Glu Gln Pro Gly Gln Lys Trp Gln Cys Ile						
	450			455		460
Glu Asp Thr Ser Gly Lys Leu Arg Ile His Lys Cys Lys Gly Pro Ser						
	465			470		475
Asp Leu Leu Thr Val Arg Gln Ser Thr Arg Asn Leu Tyr Ala Arg Gly						
	485			490		495
Phe His Asp Lys Asp Lys Glu Cys Ser Cys Arg Glu Ser Gly Tyr Arg						
	500			505		510
Ala Ser Arg Ser Gln Arg Lys Ser Gln Arg Gln Phe Leu Arg Asn Gln						
	515			520		525
Gly Thr Pro Lys Tyr Lys Pro Arg Phe Val His Thr Arg Gln Thr Arg						
	530			535		540

Ser Leu Ser Val Glu Phe Glu Gly Glu Ile Tyr Asp Ile Asn Leu Glu
545 550 555 560

Glu Glu Glu Glu Leu Gln Val Leu Gln Pro Arg Asn Ile Ala Lys Arg
565 570 575

His Asp Glu Gly His Lys Gly Pro Arg Asp Leu Gln Ala Ser Ser Gly
580 585 590

Gly Asn Arg Gly Arg Met Leu Ala Asp Ser Ser Asn Ala Val Gly Pro
595 600 605

Pro Thr Thr Val Arg Val Thr His Lys Cys Phe Ile Leu Pro Asn Asp
610 615 620

Ser Ile His Cys Glu Arg Glu Leu Tyr Gln Ser Ala Arg Ala Trp Lys
625 630 635 640

Asp His Lys Ala Tyr Ile Asp Lys Glu Ile Glu Ala Leu Gln Asp Lys
645 650 655

Ile Lys Asn Leu Arg Glu Val Arg Gly His Leu Lys Arg Arg Lys Pro
660 665 670

Glu Glu Cys Ser Cys Ser Lys Gln Ser Tyr Tyr Asn Lys Glu Lys Gly
675 680 685

Val Lys Lys Gln Glu Lys Leu Lys Ser His Leu His Pro Phe Lys Glu
690 695 700

Ala Ala Gln Glu Val Asp Ser Lys Leu Gln Leu Phe Lys Glu Asn Asn
705 710 715 720

Arg Arg Arg Lys Lys Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly
725 730 735

Glu Glu Cys Ser Leu Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn
740 745 750

His Trp Gln Thr Ala Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys
755 760 765

Thr Ser Ser Asn Asn Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu
770 775 780

Thr His Asn Phe Leu Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr
785 790 795 800

Phe Asp Met Asn Thr Asp Pro Tyr Gln Leu Thr Asn Thr Val His Thr
805 810 815

Val Glu Arg Gly Ile Leu Asn Gln Leu His Val Gln Leu Met Glu Leu
820 825 830

Arg Ser Cys Gln Gly Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn Leu
835 840 845

Asp Val Gly Asn Lys Asp Gly Gly Ser Tyr Asp Leu His Arg Gly Gln
850 855 860

Leu Trp Asp Gly Trp Glu Gly
865 870

<210> 11
<211> 870
<212> PRT
<213> Homo sapiens

<400> 11

Met Gly Pro Pro Ser Leu Val Leu Cys Leu Leu Ser Ala Thr Val Phe
1 5 10 15

Ser Leu Leu Gly Gly Ser Ser Ala Phe Leu Ser His His Arg Leu Lys
20 25 30

Gly Arg Phe Gln Arg Asp Arg Arg Asn Ile Arg Pro Asn Ile Ile Leu
35 40 45

Val Leu Thr Asp Asp Gln Asp Val Glu Leu Gly Ser Met Gln Val Met
50 55 60

Asn Lys Thr Arg Arg Ile Met Glu Gln Gly Gly Ala His Phe Ile Asn
65 70 75 80

Ala Phe Val Thr Thr Pro Met Cys Cys Pro Ser Arg Ser Ser Ile Leu
85 90 95

Thr Gly Lys Tyr Val His Asn His Asn Thr Tyr Thr Asn Asn Glu Asn
100 105 110

Cys Ser Ser Pro Ser Trp Gln Ala Gln His Glu Ser Arg Thr Phe Ala
115 120 125

Val Tyr Leu Asn Ser Thr Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr
130 135 140

Leu Asn Glu Tyr Asn Gly Ser Tyr Val Pro Pro Gly Trp Lys Glu Trp
145 150 155 160

Val Gly Leu Leu Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Leu Cys Arg
165 170 175

Asn Gly Val Lys Glu Lys His Gly Ser Asp Tyr Ser Lys Asp Tyr Leu
180 185 190

Thr Asp Leu Ile Thr Asn Asp Ser Val Ser Phe Phe Arg Thr Ser Lys
195 200 205

Lys Met Tyr Pro His Arg Pro Val Leu Met Val Ile Ser His Ala Ala
210 215 220

Pro His Gly Pro Glu Asp Ser Ala Pro Gln Tyr Ser Arg Leu Phe Pro
225 230 235 240

Asn Ala Ser Gln His Ile Thr Pro Ser Tyr Asn Tyr Ala Pro Asn Pro
245 250 255

Asp Lys His Trp Ile Met Arg Tyr Thr Gly Pro Met Lys Pro Ile His
260 265 270

Met Glu Phe Thr Asn Met Leu Gln Arg Lys Arg Leu Gln Thr Leu Met
275 280 285

Ser Val Asp Asp Ser Met Glu Thr Ile Tyr Asn Met Leu Val Glu Thr
290 295 300

Gly Glu Leu Asp Asn Thr Tyr Ile Val Tyr Thr Ala Asp His Gly Tyr

305		310		315		320
His Ile Gly Gln Phe Gly Leu Val Lys Gly Lys Ser Met Pro Tyr Glu						
	325			330		335
Phe Asp Ile Arg Val Pro Phe Tyr Val Arg Gly Pro Asn Val Glu Ala						
	340			345		350
Gly Cys Leu Asn Pro His Ile Val Leu Asn Ile Asp Leu Ala Pro Thr						
	355			360		365
Ile Leu Asp Ile Ala Gly Leu Asp Ile Pro Ala Asp Met Asp Gly Lys						
	370			375		380
Ser Ile Leu Lys Leu Leu Asp Thr Glu Arg Pro Val Asn Arg Phe His						
	385			390		400
Leu Lys Lys Lys Met Arg Val Trp Arg Asp Ser Phe Leu Val Glu Arg						
	405			410		415
Gly Lys Leu Leu His Lys Arg Asp Asn Asp Lys Val Asp Ala Gln Glu						
	420			425		430
Glu Asn Phe Leu Pro Lys Tyr Gln Arg Val Lys Asp Leu Cys Gln Arg						
	435			440		445
Ala Glu Tyr Gln Thr Ala Cys Glu Gln Leu Gly Gln Lys Trp Gln Cys						
	450			455		460
Val Glu Asp Ala Thr Gly Lys Leu Lys Leu His Lys Cys Lys Gly Pro						
	465			470		475
Met Arg Leu Gly Gly Ser Arg Ala Leu Ser Asn Leu Val Pro Lys Tyr						
	485			490		495
Tyr Gly Gln Gly Ser Glu Ala Cys Thr Cys Asp Ser Gly Asp Tyr Lys						
	500			505		510
Leu Ser Leu Ala Gly Arg Arg Lys Lys Leu Phe Lys Lys Lys Tyr Lys						
	515			520		525
Ala Ser Tyr Val Arg Ser Arg Ser Ile Arg Ser Val Ala Ile Glu Val						
	530			535		540

Asp Gly Arg Val Tyr His Val Gly Leu Gly Asp Ala Ala Gln Pro Arg
545 550 555 560

Asn Leu Thr Lys Arg His Trp Pro Gly Ala Pro Glu Asp Gln Asp Asp
565 570 575

Lys Asp Gly Gly Asp Phe Ser Gly Thr Gly Gly Leu Pro Asp Tyr Ser
580 585 590

Ala Ala Asn Pro Ile Lys Val Thr His Arg Cys Tyr Ile Leu Glu Asn
595 600 605

Asp Thr Val Gln Cys Asp Leu Asp Leu Tyr Lys Ser Leu Gln Ala Trp
610 615 620

Lys Asp His Lys Leu His Ile Asp His Glu Ile Glu Thr Leu Gln Asn
625 630 635 640

Lys Ile Lys Asn Leu Arg Glu Val Arg Gly His Leu Lys Lys Lys Arg
645 650 655

Pro Glu Glu Cys Asp Cys His Lys Ile Ser Tyr His Thr Gln His Lys
660 665 670

Gly Arg Leu Lys His Arg Gly Ser Ser Leu His Pro Phe Arg Lys Gly
675 680 685

Leu Gln Glu Lys Asp Lys Val Trp Leu Leu Arg Glu Gln Lys Arg Lys
690 695 700

Lys Lys Leu Arg Lys Leu Leu Lys Arg Leu Gln Asn Asn Asp Thr Cys
705 710 715 720

Ser Met Pro Gly Leu Thr Cys Phe Thr His Asp Asn Gln His Trp Gln
725 730 735

Thr Ala Pro Phe Trp Thr Leu Gly Pro Phe Cys Ala Cys Thr Ser Ala
740 745 750

Asn Asn Asn Thr Tyr Trp Cys Met Arg Thr Ile Asn Glu Thr His Asn
755 760 765

Phe Leu Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Leu
770 775 780

Asn Thr Asp Pro Tyr Gln Leu Met Asn Ala Val Asn Thr Leu Asp Arg
785 790 795 800

Asp Val Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys
805 810 815

Lys Gly Tyr Lys Gln Cys Asn Pro Arg Thr Arg Asn Met Asp Leu Gly
820 825 830

Leu Lys Asp Gly Gly Ser Tyr Glu Gln Tyr Arg Gln Phe Gln Arg Arg
835 840 845

Lys Trp Pro Glu Met Lys Arg Pro Ser Ser Lys Ser Leu Gly Gln Leu
850 855 860

Trp Glu Gly Trp Glu Gly
865 870